To:	County of San Bernardino Planning Division
Drafted by:	Elaina Chambers, Maryam Javamardi, Tina Yuan, Alex Garber, EPD Solutions, Inc.
Date:	9/17/2026
Re:	**Air Quality, Energy, and Greenhouse Gas Impact Analysis for the Nerio Farms Residential Community, EPD Project Number 25-093**

Project Overview

The Project ("Project," or "proposed Project") is located at the southeast corner of Pipeline Avenue and Phillips Boulevard in the southwest portion of the County of San Bernardino. Specifically, the site is located within an unsectioned area of Township 1 South, Range 8 West in the Ontario Quadrangle. Regional access to the site is provided via State Route 60 (SR-60) and State Route 71 (SR-71). Local access to the site is provided via Pipeline Avenue and Phillips Boulevard. The proposed Project site location is identified in Figure 1, *Project Location.*

The Project site predominately consists of disturbed agricultural land, with an active plant nursery located in the southwest corner and several structures located in the northwest and northeast corners of the site. The northwest corner is developed with a cellular communications tower, an emergency generator, and associated ancillary structures, while the northeast corner is developed with one single-family residence and various ancillary structures such as garages and storage sheds. The Project Applicant proposes to demolish the existing structures in the northeast corner of the site and subdivide the approximately 24.16-gross-acre site into 91 lots, including 90 for-sale conventional single-family residential lots and one lot for the existing cell tower on-site, which is to remain. Additionally, the proposed Project includes landscaping, parking, private roadways, open space amenities, on-site and right-of-way utility and stormwater improvements, and an off-site sewer extension.

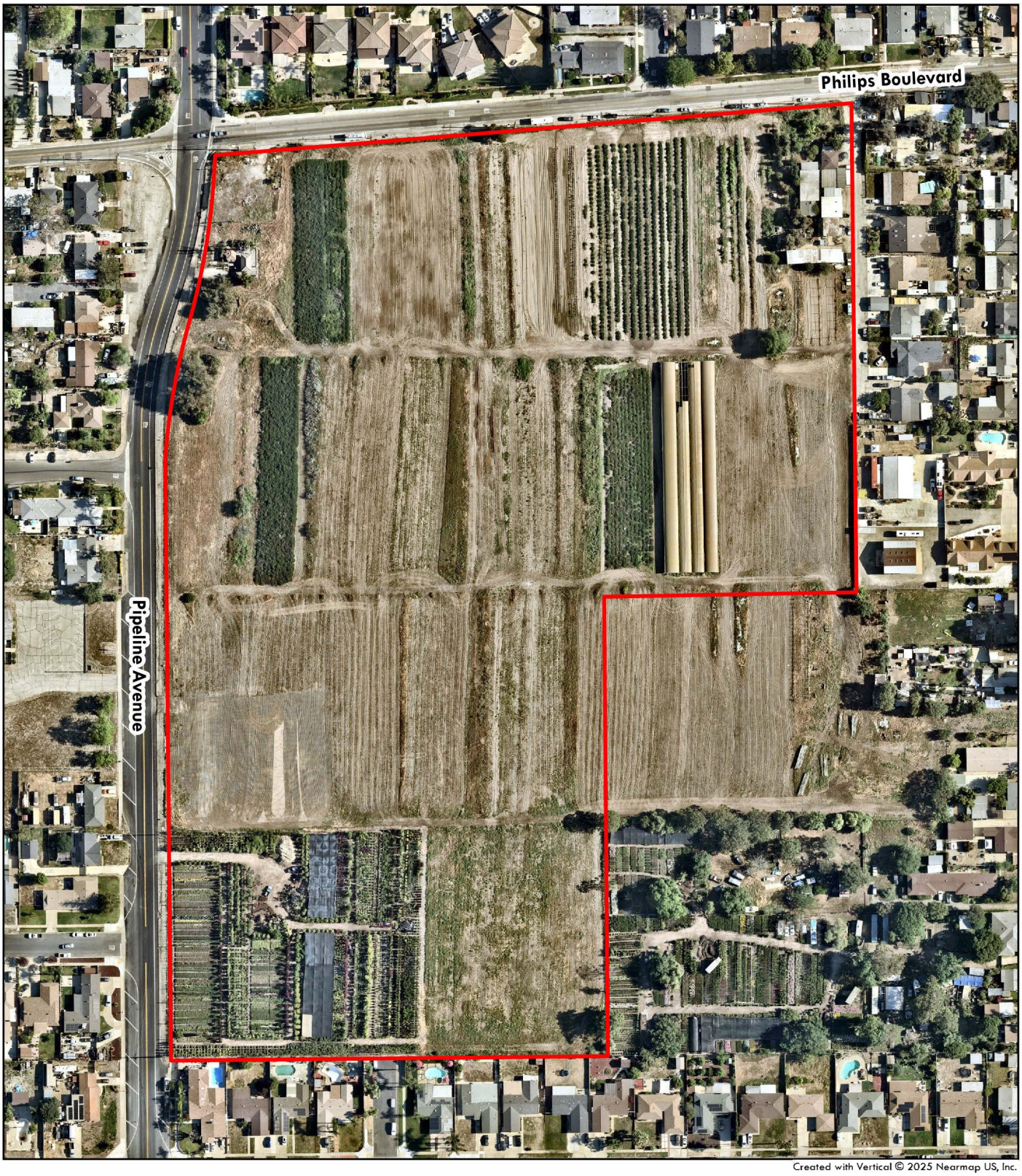
Access to the Project site would be provided via two new driveways proposed along Pipeline Avenue. The Project also proposes a new driveway approach off Pipeline Avenue to provide access to the existing cell tower facility on-site which would remain in place as part of the Project. Internal circulation would be provided via new extensions of Boyer Street and Locust Street on-site to connect to new Streets A, B, C, and D. All newly proposed streets would have a 60-foot-wide right-of-way (ROW), with 5-foot-wide sidewalks, 7 feet of landscape buffer, and 6-inch curb and gutter on either side of the 32-foot-wide streets. The proposed site layout is illustrated in Figure 2, *Conceptual Site Plan*.

The Project site is not currently served by sanitary sewer infrastructure. To facilitate service, the Project would construct an approximately 3,970-foot-long 8-inch public sewer line extension to connect to the City of Chino's existing sewer system. The proposed off-site sewer extension would connect to an existing sewer main located within Norton Avenue, approximately 0.5 mile south of the Project site. From that connection point, the alignment would extend north within Norton Avenue to Maple Street, continue

west along Maple Street to Pipeline Avenue, and then extend north along Pipeline Avenue to the Project site. The off-site extensions can be found in Figure 3, *Proposed Off-Site Sewer Extension*).

To support the CEQA document for the proposed Project, this report analyzes the proposed Project's construction and operational impacts related to air quality (emission of criteria pollutants), energy, and greenhouse gas (GHG) emissions using the California Emissions Estimator Model (CalEEMod Version 2022.1) and the Emission Factor model (EMFAC Version 2021).

Figure 1: Aerial View



Legend

Project Boundary

0 200 400 US Feet

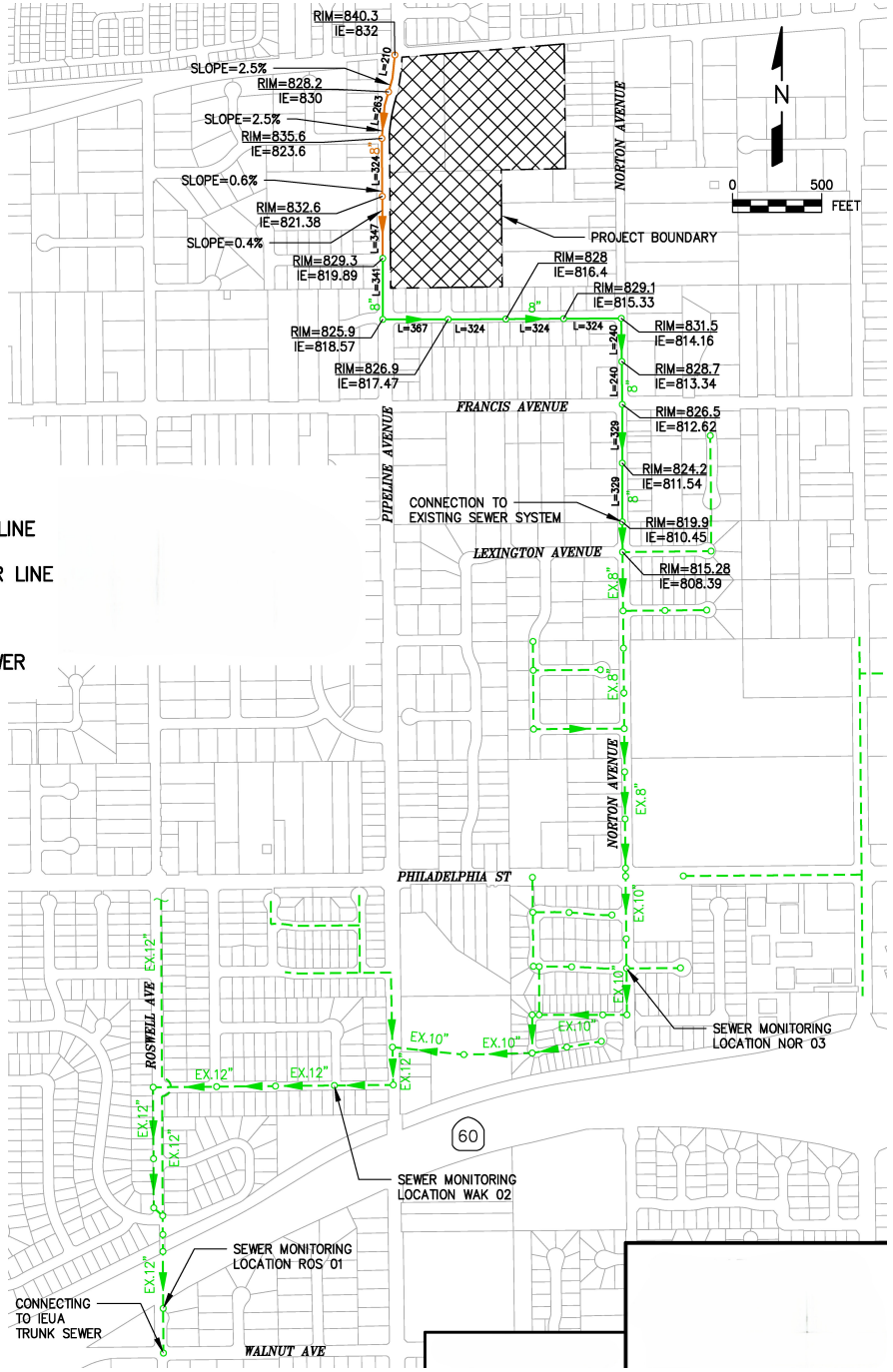
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Figure 2: Conceptual Site Plan



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Figure 3: Proposed Off-Site Sewer Extension



LEGEND

- PROJECT BOUNDARY
- EXISTING PUBLIC SEWER LINE
- PROPOSED PUBLIC SEWER LINE
- ADDITIONAL EXTENSION

NOTE: ALL SLOPES FOR PROPOSED GRAVITY SEWER PIPING ARE 0.38% UNLESS OTHERWISE NOTED.

DEXTER WILSON ENGINEERING, INC.
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Summary of Air Quality, Energy, and GHG Impacts

Air Quality

The proposed Project's construction activities would comply with applicable SCAQMD rules and regulations, including Rule 402, Rule 403, Rule 445, Rule 1113, and Rule 1403:

- Rule 402, *Public Nuisance*: Prohibits the discharge of air contaminants that cause injury, nuisance, or annoyance to the public or damage to property.
- Rule 403, *Fugitive Dust*: Aims to minimize fugitive particulate matter dust emissions during construction activities.
- Rule 445, *Wood-Burning Devices:* Reduce emission production of particulate matter and volatile organic compounds from wood burning devices.
- Rule 1113, *Architectural Coatings*: Allows only low-volatile organic compound (VOC) paints to be used.
- Rule 1403, *Asbestos Demolition and Removal:* Establishes work practice requirements to limit asbestos emissions from building demolition or renovation. These requirements include asbestos surveying, public notification, removal and handling procedures, time schedules, and storage/disposal/landfill requirements. Records of compliance must be maintained and all appropriate warning labels, signs, and marking must be utilized.

The Project's maximum daily localized construction emissions would not exceed SCAQMD thresholds. The Project's localized operational emissions would also comply with the SCAQMD operational significance thresholds. Therefore, localized construction and operational air quality impacts would be less than significant.

The Project's maximum daily regional construction emissions would exceed the SCAQMD regional threshold for ROG during the architectural coating phase prior to mitigation, resulting in a potentially significant impact. All other construction phases would result in emissions below applicable SCAQMD regional thresholds. Implementation of Mitigation Measure AQ-1: Low VOC Paint would be required to reduce the ROG impact to less than significant.

Mitigation Measure AQ-1: Low VOC Paint (Construction): Construction plans, specifications, and permitting shall require that, during construction, the Project use "super-compliant" low-VOC paints that have been reformulated to exceed the regulatory VOC limits established by SCAQMD Rule 1113 for all architectural coatings. Super-compliant low-VOC paints shall contain no more than 10 g/L of VOC. Prior to issuance of building permits, the County shall confirm that plans include the following specifications:

- All architectural coatings will be super-compliant low VOC paints, reduced from the residential standard of 100 g/l VOC content paint, to a compliant VOC, not exceeding 10 g/L.
- Use compliant low-VOC cleaning solvents to clean paint application equipment.
- Using super-compliant VOC paints for coating of architectural surfaces whenever possible.

With implementation of Mitigation Measure AQ-1, the Project's ROG emissions would be reduced from 228.6 pounds per day to 49.8 pounds per day, which is below the SCAQMD threshold of 75 pounds per day. Therefore, implementation of Mitigation Measure AQ-1 would reduce the potentially significant ROG impact to less than significant.

Th proposed Project would align with the SCAQMD's 2022 Air Quality Management Plan (AQMP), reflecting adherence to regional air quality management goals and standards. The toxic air contaminant (TAC) emissions generated by the Project would result in a maximum construction cancer risk of 8.58 in one million, which would be below the SCAQMD health risk threshold of 10 in one million.[1] The Project would also be consistent with Rule 402, Public Nuisance, as odors produced by Project construction would be minimal and temporary, and operational odors would be minimal and similar to those associated with surrounding land uses. Additionally, the Project would be consistent with SCAQMD Rule 1403, Asbestos Demolition and Removal, by requiring asbestos surveys and the proper handling and disposal of any asbestos-containing materials during demolition. Therefore, with implementation of Mitigation Measure AQ-1, the proposed Project would result in less-than-significant air quality impacts.

Energy

Construction activities related to the proposed Project and associated infrastructure are not expected to result in fuel demand that is greater, on a per-unit-of-development basis, than that of other similar development projects in Southern California. The proposed Project's energy consumption during construction would comply with applicable fuel standards, machinery efficiency requirements, and California Air Resources Board (CARB) regulations limiting truck idling. During operation, the proposed Project would be required to comply with the California Code of Regulations (CCR) Title 24 energy efficiency standards and all applicable energy codes. The Project buildings would also include solar energy systems in compliance with applicable Title 24 requirements. There are no unusual Project characteristics that would cause the construction or operation of the Project to be less energy-efficient than other similar commercial developments in the region. Therefore, the proposed Project would not result in inefficient, wasteful, or unnecessary consumption of energy and would not preclude the use of, or future flexibility for, renewable energy. Impacts related to energy would be less than significant.

GHG Emissions

The proposed Project's construction and operational GHG emissions would total approximately 1,282 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year, which is below the SCAQMD significance threshold of 3,000 $MTCO_2e$ per year. The Project would also be consistent with applicable policies and measures for reducing GHG emissions, including the 2022 CARB Scoping Plan and the County of San Bernardino Regional GHG Reduction Plan.

The County of San Bernardino Regional GHG Reduction Plan establishes a 3,000 $MTCO_2e$ per year screening level for evaluating the significance of GHG emissions. Because the Project's estimated GHG emissions of approximately 1,282 $MTCO_2e$ per year are below this screening level, the Project would not exceed the applicable GHG screening threshold. In addition, the Project would implement applicable GHG reduction measures and would be consistent with the applicable goals and measures of the County's GHG Reduction Plan.

Therefore, the proposed Project would have a less-than-significant impact related to GHG emissions.

[1] EPD Solutions, Inc. (2026). *25-093 Nerio Farms Chino Health Risk Assessment*

Air Quality

Methodology

To calculate the construction and operational impacts, air quality emissions, energy consumption, and GHG emissions were estimated using CalEEMod v. 2022.1 and EMFAC v. 2021 (EMFAC2021). The most recent version of CalEEMod uses emission factors from EMFAC2021 for off-road and on-road vehicles. A more recent version of EMFAC was released in May 2025. However, this version of EMFAC has still not been approved and adopted by the United States Environmental Protection Agency (USEPA). Therefore, for consistency with the CalEEMod model, EMFAC2021 was used. CalEEMod outputs have been included as Attachment A.1.

EMFAC2021 currently accounts for emissions reductions attributed to compliance with several regulations: the Advanced Clean Trucks Regulation, Zero-Emission Airport Shuttle Regulation, Heavy-Duty Warranty Amendments (Phase 1), and the Heavy-Duty Omnibus Regulation. On June 12, 2025, three congressional resolutions were signed into law to disapprove previously approved preemption waivers which allowed the enforcement of these regulations. Therefore, the California Air Resources Board (CARB) released the EMFAC2021 Off-Model Adjustment Factors (Adjustment Factors), which negates emissions reductions attributed to these regulations. On November 21, 2025, the EPA approved use of Adjustment Factors.[2] These factors are provided for each vehicle under EMFAC2021's vehicle categories for exhaust NO_X, Total $PM_{2.5}$ (exhaust, break wear, and tire wear), Total PM_{10} (exhaust, break wear, and tire wear), and Total ROG (exhaust and evaporative), for every year from 2022 to 2050. In addition, factors are provided for different fuel types (diesel, gas, natural gas, electric, and plug-in hybrid electric).

CalEEMod v. 2022.1 uses emissions data from EMFAC2021. However, CalEEMod has not yet incorporated the Adjustment Factors due to the recency of its approval. To account for the potential increase in emissions, diesel adjustment factors from the construction years of 2027 through 2028 were applied to construction off-site emissions from hauling and vendor trips. Adjustment factors were not applied to the operational mobile emissions, as the EMFAC adjustment factors provided for passenger vehicles are 1.0. Calculations to obtain the adjusted emission rates are provided in Attachment B.

The passenger vehicles were analyzed using the CalEEMod default trip distance information.[3] Table 1, *Construction Schedule*, shows the CalEEMod construction schedule that was modeled.

[2] USEPA. (November 2025). *EPA Off-Model Adjustment Factors Approval Letter*. Referenced at https://ww2.arb.ca.gov/sites/default/files/2025-12/EPA%20Off-Model%20Adjustment%20Factors%20Approval%20Letter.pdf

[3] EPD utilized the Metropolitan Planning Organization (MPO) default data provided in CalEEMod, as it provides more accurate trip length data than the region-wide CSTDM trip length data.

Table 1: Construction Schedule

Activity	Start Date	End Date	Total Working Days
Demolition	7/1/2027	7/14/2027	10
Site Preparation	7/14/2027	7/20/2027	5
Grading	7/20/2027	8/16/2027	20
Building Construction	8/17/2027	5/22/2028	200
Infrastructure Improvements (Trenching)	8/17/2027	9/13/2027	20
Paving	8/17/2027	9/13/2027	20
Architectural Coating	5/15/2028	6/9/2028	20

CalEEMod Modeling Details

The following non-default assumptions were used in CalEEMod for this analysis:

- **Land Use:** The lot acreage was adjusted to match the site plan provided by the client.
- **Construction Schedule:** The following phases were reduced to adhere to the construction start date and occupancy year as provided by the client:
    - The demolition phase was reduced from 20 days to 10 days.
    - The site preparation phase duration was reduced from 10 days to 5 days.
    - The grading phase was reduced from 35 days to 20 days.
    - The building construction phase was reduced from 370 days to 200 days.

  Additionally, the paving phase was revised to begin concurrently with building construction. Architectural coating was set to begin one week preceding the completion of building construction, and to span the CalEEMod default number of days after that, approximately 10 working days after building construction concluded. Sewer trenching was assumed to take approximately 20 working days, based on an estimated trench length of 3,970 feet under typical construction production rates. Reduced phase durations and overlapping phases during construction would result in a conservative analysis.
- **Construction Equipment:** It was assumed that all equipment would be used for 8 hours per workday. Tractor/loaders/backhoes were replaced with crawler tractors in the site preparation and grading construction phases to conservatively estimate ground disturbance.
- **Demolition:** The demolition of the existing buildings and structures on-site is anticipated to amount to 3,600 tons of debris. Demolition calculations of the three on-site structures can be found in Attachment C, *Demolition Calculations Sheet.*
- **Construction Earthmoving Activity:** Based on the preliminary grading plan, the Project would require the export of approximately 3,457 cubic yards (CY) of material during the grading phase.
- **Operational Area Sources, Hearths:** The Project proposes the inclusion of a single fireplace in each of the 90 single-family units. However, as wood-burning fireplaces are prohibited in accordance with SCAQMD Rule 445, which prohibits the installation of wood-burning devices in an effort to reduce particulate matter and reduce production of volatile organic compounds (VOCs), the Project proposes

to include natural gas or electrically powered fireplaces. For a conservative analysis, the utilization of 90 natural gas-powered fireplaces was analyzed. Wood stoves were removed in accordance with SCAQMD Rule 445.[4]

- **Operational Vehicle Data:** The trip rate was adjusted to match the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 12th Edition,* auto trip rates for weekday, Saturday, and Sunday trip rates for Single-Family Detached Housing (ITE Land Use Code 210) for the 90 units.[5]

Regional Emissions

To calculate operational impacts, the air quality emissions from the existing land use were estimated using CalEEMod. SCAQMD has adopted maximum daily emission thresholds (pounds/day) for criteria pollutants during the construction and operation of a project.[6] While incremental regional air quality impacts of an individual project are generally very small and difficult to measure, SCAQMD's regional maximum emission thresholds set standards to reduce the burden of SCAQMD to attain and maintain ambient air quality standards. The regional thresholds apply to the criteria pollutants listed in Table 2, *Unmitigated Regional Construction Emission Estimates*.

Table 2 shows the CalEEMod estimated emissions for Project construction. The estimated Project emissions include those generated both from on-site sources (such as off-road construction equipment and fugitive dust) and off-site sources (vehicles traveling to and from the site). As shown in Table 2, the proposed Project would result in maximum daily ROG emissions of 228.6 pounds per day, which would exceed SCAQMD's thresholds for construction ROG emissions. The elevated ROG emissions are primarily attributable to the use of architectural coatings during construction activities. Therefore, unmitigated construction emissions would result in a potentially significant regional air quality impact.

Table 2: Unmitigated Regional Construction Emission Estimates

Maximum Daily Emissions	Maximum Daily Regional Emissions (pounds/day)[1,2]					
	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
2027[3]	7.1	62.5	62.2	0.1	15.2	6.6
2028[3]	228.6	11.2	18.1	<0.1	0.9	0.5
Maximum Daily Emission (2027-2028)	228.6	62.5	62.2	0.1	15.2	6.6
SCAQMD Significance Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**Yes**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SO_2 = sulfur dioxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter

1. Values may vary slightly due to rounding; see Attachment B, *Detailed Calculation Sheets.*

[4] SCAQMD. (2020). *Rule 445, Wood-Burning Devices*. Referenced at https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-445.pdf

[5] EPD Solutions, Inc. (2026). *25-093 Nerio Farms Chino Vehicles Miles Traveled (VMT) Screening Memo.*

[6] SCAQMD. (March 2023). *South Coast AQMD Air Quality Significance Thresholds.* https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25

2. Winter and Summer emissions rates were compared across all pollutants, the table above presents the greater emission rate for each season and therefore presents a conservative analysis.
3. Emissions for ROG, NOx, PM_{10}, and $PM_{2.5}$ have accounted for the 2027 and 2028 Adjustment Factors.
Source: Proposed CalEEMod Output Sheets (see Attachment A.1).

To reduce this impact, the proposed Project would implement Mitigation Measure AQ-1:

> **Mitigation Measure AQ-1 Low VOC Paint (Construction):** Construction plans, specifications, and permitting shall require that during construction the Project shall use "super-compliant" low VOC paints which have been reformulated to exceed the regulatory VOC limits (i.e., have a lower VOC content than what is required) put forth by SCAQMD's Rule 1113 for all architectural coatings. Super-compliant low VOC paints shall contain no more than 10 g/L of VOC. Prior to issuance of building permits, the County shall confirm that plans include the following specifications:
>
> - All architectural coatings will be super-compliant low VOC paints, reduced from the residential standard of 100 g/l VOC content paint, to a compliant VOC, not exceeding 10 g/L.
> - Use compliant low-VOC cleaning solvents to clean paint application equipment.
> - Using super-compliant VOC paints for coating of architectural surfaces whenever possible.

Table 3, *Mitigated Regional Construction Emissions Estimates*, shows the results of the mitigated maximum daily regional construction emissions. With implementation of Mitigation Measure AQ-1, maximum daily ROG emissions would be reduced to 49.8 pounds/day, which would be below the SCAQMD significance threshold. Therefore, with mitigation, regional construction air quality impacts would be less than significant.

Table 3: Mitigated Regional Construction Emission Estimates

Maximum Daily Emissions	Maximum Daily Regional Emissions (pounds/day)[1,2]					
	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
2027[3]	7.1	62.5	62.2	0.1	15.2	6.6
2028[3]	49.8	11.2	18.1	<0.1	0.9	0.5
Maximum Daily Emission (2027-2028)	49.8	62.5	62.2	0.1	15.2	6.6
SCAQMD Significance Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SO_2 = sulfur dioxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
1. Values may vary slightly due to rounding; see Attachment C, *Detailed Calculation Sheets.*
2. Winter and Summer emissions rates were compared across all pollutants, the table above presents the greater emission rate for each season and therefore presents a conservative analysis.
3. Emissions for ROG, NOx, PM_{10}, and $PM_{2.5}$ have accounted for the 2027 and 2028 Adjustment Factors.
Source: Proposed CalEEMod Output Sheets (see Attachment A.1).

The Project's estimated maximum daily regional operational emissions are shown in Table 4, *Regional Operation Emission Estimates*. As noted in Table 4, the operation of the Project would not exceed the SCAQMD regional or localized emission significance thresholds. Thus, the Project's operational air quality impact would be less than significant. All CalEEMod output sheets can be found in Attachment A.1.

Table 4: Regional Operation Emission Estimates

Operational Activity	Maximum Daily Regional Emissions (pounds/day)[1,2]					
	ROG	**NOx**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mobile	2.8	2.5	22.5	0.1	5.3	1.4
Area	17.1	1.5	5.8	0.0	0.1	0.1
Energy	0.0	0.7	0.3	0.0	0.1	0.1
Total Operational Emissions	**19.9**	**4.7**	**28.6**	**0.1**	**5.4**	**1.5**
SCAQMD Significance Thresholds	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SO_2 = sulfur dioxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
1. Values may vary slightly due to rounding; see Attachment B, *Detailed Calculation Sheets.*
2. Winter and Summer emissions rates were compared across all pollutants, the table above presents the greater emission rate for each season and therefore presents a conservative analysis.
Source: Proposed CalEEMod Output Sheets (see Attachment A.1).

Local Emissions

Localized significance thresholds (LSTs) were also adopted by the SCAQMD due to project-related construction or operational air emissions having the potential to exceed the State and national air quality standards in the project vicinity, while not exceeding the regional emission significance thresholds adopted by the SCAQMD. These thresholds set the maximum rates of daily construction or operational emissions from a project site that would not exceed a national or State ambient air quality standard.[7] The differences between regional thresholds and LSTs are as follows:

1. Regional thresholds include all sources of project construction and operational emissions generated from on-site and off-site emission sources whereas the LSTs only consider the emissions generated from on-site emission sources.
2. LSTs only apply to carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM_{10} and $PM_{2.5}$), while regional thresholds include both reactive organic gases (ROG) and sulfur dioxide (SO_2).
3. Regional thresholds apply to emission sources located anywhere within the SCAQMD whereas the LSTs are location dependent and rely on the size of the project and emission location relative to the nearest sensitive receptor.

[7] SCAQMD. (2008). *Final Localized Significance Threshold Methodology.* http://www.aqmd.gov/docs/defaultsource/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf

SCAQMD provides screening tables (Appendix C of the SCAQMD *2008 Final Localized Significance Threshold Methodology*) for projects that disturb less than or equal to 5 acres in a day.[8] These tables were created to easily determine if the daily emissions of NOx, CO, PM_{10}, and $PM_{2.5}$ from a project could result in a significant impact to the local air quality. The thresholds are determined by:

- Source receptor area (SRA), which is the geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts (the Project is located within SRA 33, San Bernardino Valley);
- Size of grading disturbance (construction)/size of the project (operation); and
- Distance to the nearest sensitive receptor, which is defined as an individual who is most susceptible to negative health effects when exposed to air pollutants, and includes children, the elderly, and adults with chronic health issues. Locations for such receptors include residences, schools, elderly care centers, and hospitals.

Per SCAQMD guidance,[9] maximum ground disturbance is estimated based on the following equipment types listed below in Table 5, *Project Ground Disturbance Acreage*. Therefore, the LST analysis only evaluates phases utilizing those equipment, since these phases would result in the greatest magnitude of site disturbance. Each phase of construction was evaluated separately since disturbance acreage varied across phases. In addition, on-site and off-site LST impacts were evaluated independently, since the site preparation and grading phases for each would not be concurrent and impact separate sensitive receptors.

Table 5: Project Ground Disturbance Acreage

Activity	Equipment Type	Equipment Quantity	Operating Hours per Day	Acres Disturbed per Piece of Equipment per Day	Acres Disturbed per Day
Demolition	Concrete/Industrial Saws	1	8	0	0
	Excavators	3	8	0	0
	Rubber Tired Dozers	2	8	0.5	1.0
Total Acres Disturbed Per Day (Demolition)					**1.0**
Site Preparation	Rubber Tired Dozers	3	8	0.5	1.5
	Crawler Tractors	4	8	0.5	2.0
Total Acres Disturbed Per Day (Site Preparation)					**3.5**
Grading	Excavators	2	8	0	0
	Graders	1	8	0.5	0.5
	Rubber Tired Dozers	1	8	0.5	0.5
	Scrapers	2	8	1	2.0

[8] SCAQMD. (2008). *Final Localized Significance Threshold Methodology Appendix C.* http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2

[9] SCAQMD. (n.d.). *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds.* Referenced at https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf

	Tractors/Loaders/Backhoes	0	8	0	0
	Crawler Tractors	2	8	0.5	1.0
				Total Acres Disturbed Per Day (Grading)	**4.0**

Source: Proposed CalEEMod Output Sheets (see Attachment A.1).

Using the SCAQMD's methodology to estimate acres of ground disturbance, the demolition phase would result in 1 acre of disturbance per day, the site preparation phase would result in 3.5 acres of ground disturbance per day and the grading phase was determined to disturb a maximum of 4.0 acres per day. For phases which resulted in a site disturbance in between SCAQMD-provided thresholds, project-specific thresholds were obtained through linear interpolation. For example, the SCAQMD thresholds for a 2-acre and 5-acre site were interpolated to calculate thresholds for both the site preparation and grading phases. The appropriate thresholds for each phase were calculated and compared to the Project's emissions during the respective phase.

Distance to the nearest sensitive receptor also determines the emission thresholds. The nearest sensitive receptors to the Project site boundary are single-family residences located approximately 15 feet (4 meters) south of the Project site boundary and 16 feet (5 meters) east of the site boundary. There are also sensitive receptors within 25 feet (8 meters) from the Project's proposed off-site sewer extension route along Maple Street and Norton Avenue. Therefore, the construction emission thresholds for 25 meters were used, since 25 meters is the closest receptor distance for thresholds provided by the LST mass look up tables. SCAQMD acknowledges that while receptors may be closer than 25 meters, such as for the Project, thresholds for the 25-meter distance are still recommended.

Calculations for site disturbance can be found in Attachment B.

Table 6, On-Site Localized Construction Emission Estimates, shows the thresholds and estimated maximum daily construction emissions for on-site development, and Table 7, Off-Site Localized Construction Emission Estimates, lists the off-site development emissions. As shown in Table 6 and 7, the proposed Project would not exceed the SCAQMD LST screening thresholds and would therefore have a less-than-significant localized construction air quality impact.

Table 6: On-Site Localized Construction Emission Estimates

Construction Year	Maximum Daily Regional Emissions (pounds/day)			
	NOx	**CO**	**PM_{10}**	**$PM_{2.5}$**
2027				
Demolition	19.9	18.6	5.8	1.5
1-acre Thresholds	118.0	863.0	5.0	4.0
Threshold Exceeded?	**No**	**No**	**No**	**No**
2027				
Site Preparation	32.7	30.4	7.3	4.2
3.5-acre Thresholds[1]	220.0	1,712.5	11.0	7.0
Threshold Exceeded?	**No**	**No**	**No**	**No**
2027				
Grading	28.0	28.3	3.9	2.1
4-acre Thresholds[1]	236.7	1,872.7	12.7	7.7
Threshold Exceeded?	**No**	**No**	**No**	**No**

Notes: NOx = nitrogen oxides, CO = carbon monoxide, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter
1 Significance thresholds obtained by interpolating values for 2 acres and 5 acres at a receptor distance of 25 meters.
Source: CalEEMod Output Sheets (see Attachment A.1).

The localized significance thresholds for operation are determined by the size of the Project site and the distance to the nearest sensitive receptor as well as the maximum trip length possible within the Project site. As the Project's site is 24.16 acres, the threshold for 5 acres were utilized to yield a conservative analysis. As shown in Table 7, *Localized Operational Emission Estimates,* the proposed Project would generate emissions below the SCAQMD thresholds and would therefore have a less-than-significant localized operational air quality impact.

Table 7: Localized Operational Emission Estimates

Operational Activity	Maximum Daily Regional Emissions (pounds/day)			
	NO_x	**CO**	**PM_{10}**	**$PM_{2.5}$**
Mobile	2.5	22.5	5.3	1.4
Area	1.5	5.8	0.1	0.1
Energy	0.7	0.3	0.1	0.1
Total	**4.7**	**28.6**	**5.4**	**1.5**
SCAQMD Significance Thresholds	270	2,193	12	3
Threshold Exceeded?	**No**	**No**	**No**	**No**

Source: Operational LST CalEEMod Output Sheets (see Attachment A.2).

Air Quality Management Plan Consistency

The SCAQMD's CEQA Handbook provides the following two criteria to determine whether a project would be consistent with the 2022 AQMP:

1. The Project would not generate population and employment growth that would be inconsistent with the Southern California Association of Governments (SCAG)'s growth forecasts from the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); and
2. The Project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

Consistency Criterion No. 1 refers to the SCAG's growth forecasts and the associated assumptions included in the AQMP. The future air quality levels projected in the AQMP are based on the SCAG's regional growth projections, which rely in part on the general plans of jurisdictions within the SCAG region. While the SCAG has adopted a more recent 2024-2050 RTP/SCS, the SCAQMD CEQA handbook provides criteria for determining project significance that are aligned with the AQMP based on growth assumptions from the 2020-2045 RTP/SCS and is thus used to determine project-level significance for this analysis.

Implementation of the proposed Project would require both a General Plan Amendment (GPA) and zone change, to change the General Plan Land Use Designation from Very Low Density Residential (VLDR) to Special Development (SD) Planned Development and zoning from Single Residential – One Acre Minimum (RS-1) to Single Residential (RS). However, the Project proposes a residential development within an area already planned for residential growth within San Bernardino County and does not introduce land uses or growth patterns that are inconsistent with SCAG's regional development assumptions. Additionally, as a residential development consisting of 90 single-family homes, the Project would not include substantial employment-generating uses and would not induce unplanned job growth.

SCAG growth forecasts indicate an increase from 2,250,000 persons in 2020 to 2,815,000 persons in 2045.[10] Based on the by the California Department of Finance 2025 Population and Housing Estimates, the reported average household size for the County is 3.14 persons per household. [11] Using this estimate, the Project's 90 single-family home units would thus add approximately 283 residents.[12] This increase represents a negligible portion (0.05 percent increase) of the County's projected population growth over the 2020 to 2045 period. In addition, the Project constitutes residential infill development within an urbanized area, which is consistent with the 2020–2045 RTP/SCS strategy to accommodate growth in

[10] SCAG Growth Forecasts (565,000 persons between 2020 and 2045):
Southern California Association of Governments (SCAG). (September 2020). *Demographics and Growth Forecast*. https://scag.ca.gov/sites/default/files/old/file-attachments/0903fconnectsocal_demographics-and-growth-forecast.pdf

[11] San Bernardino County's Population Estimate (1,909,919) persons as of January 1, 2025):
California Department of Finance. (January 2025). *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2020-2025*. https://dof.ca.gov/forecasting/demographics/estimates/e-5-population-and-housing-estimates-for-cities-counties-and-the-state-2020-2025

[12] Average Household Size (3.099 persons per household for County of San Bernardino):
SCAG (August 2020). *Local Housing Data*. https://scag.ca.gov/sites/default/files/old/file-attachments/unincorporatedsanbernardinocounty_he_0920.pdf?1603259058=

developed areas to improve land use efficiency and reduce regional emissions. Accordingly, the Project would not exceed or conflict with SCAG growth projections and would be consistent with the growth assumptions used in the AQMP. Thus, the Project would be consistent with Consistency Criterion No. 1.

Consistency Criterion No. 2 refers to the California Ambient Air Quality Standards. An impact would occur if emissions associated with the proposed Project exceed the SCAQMD's significance thresholds during construction or operation. As shown in Table 3 and Table 4, the Project's unmitigated construction emissions would exceed the applicable SCAQMD regional significance threshold for reactive organic gases (ROG) during the architectural coating phase. Therefore, the Project would result in a potentially significant impact prior to mitigation. Implementation of Mitigation Measure AQ-1 would require the use of super-compliant low-VOC architectural coatings containing no more than 10 g/L of VOC. With implementation of MM AQ-1, ROG emissions would be reduced from 228.6 pounds per day to 49.8 pounds per day, which is below the SCAQMD threshold of 75 pounds per day. All other construction and operational emissions would remain below applicable SCAQMD significance thresholds.

With implementation of MM AQ-1, the Project would not result in a cumulatively considerable net increase in criteria pollutant emissions, contribute to violations of ambient air quality standards, or delay attainment of those standards or applicable emission reduction targets identified in the AQMP. Therefore, the Project would be consistent with Consistency Criterion No. 2 with mitigation implemented.

Odors

Odors would be produced during the construction of the proposed Project due to the operation of heavy-duty off-road equipment. The primary odor emitted would be diesel particulate matter (DPM) from the vendor trucks and heavy-duty off-road equipment. This odor may be noticeable by nearby residents; however, these odors are typical of construction activities and would be short-term, localized, and temporary in nature. Additionally, construction-related odors would dissipate rapidly with distance from the source and would cease upon completion of construction activities. Therefore, due to the nature of the odor produced during construction as temporary and non-objectionable to a substantial number of people, the odor impact from construction of the proposed Project would be less than significant.

For operational odor emissions, SCAQMD's *CEQA Air Quality Handbook* describes odor complaints associated with the following land uses:

- Agricultural uses
- Chemical plants
- Composting activities
- Dairies
- Fiberglass molding
- Food processing plants
- Landfills
- Refineries
- Wastewater treatment plants

The Project does not propose any of the above land uses and consists of residential development, which is not a substantial source of odors. The Project would also be subject to SCAQMD Rule 402, *Nuisance*, which prohibits the discharge of air contaminants that cause nuisance or annoyance to a considerable number of persons. Compliance with Rule 402 would ensure that any operational odors would not increase to a level that would affect a substantial number of people. SCAQMD Rule 402, *Nuisance*, states:

> *A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to*

> *any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.*

Thus, impacts associated with odor produced by operation of the proposed Project would be less than significant.

Demolition Asbestos

Demolition activities associated with the Project would involve the removal of the existing structures in the northwest and northeast corners of the siter. Depending on the age of the structures, asbestos-containing materials (ACMs) may be present in building components such as insulation, flooring, or roofing materials. Disturbance of ACMs during demolition could result in the release of airborne asbestos fibers if not properly managed. Thus, the Project is subject to comply with SCAQMD Rule 1403, *Asbestos Demolition and Removal,* which establishes procedures to control asbestos emissions during demolition activities.

SCAQMD Rule 1403 requires, but is not limited to: pre-demolition asbestos surveys, notification from regulatory agency, proper removal and handling of any asbestos-containing materials (ACMs) prior to the commencement of demolition activities. Compliance with Rule 1403 ensures that projects consisting of ACMs during demolition are identified, properly handles, and disposed of in accordance with regulatory requirements, and thus minimizing potential health risks.

Thus, potential impacts associated with demolition and possible asbestos emissions would be less than significant.

Conclusion

The proposed Project's maximum daily regional operational emissions and localized construction emissions would not exceed SCAQMD's regional thresholds of significance, as detailed in Tables 2 through 6. However, the proposed Project's maximum daily regional construction emissions would exceed the SCAQMD's regional significance threshold for ROG during the architectural coating phase, resulting in a potentially significant impact prior to mitigation. The SCAQMD recommends implementation of Mitigation Measure AQ-1: Low VOC Paint, subjecting the Project to a stricter 10 g/L maximum VOC content during the architectural coating phase to reduce potential impacts. As noted in Table 3, the Project's maximum daily regional emissions during the architectural coating phase would be reduced from 228.6 pounds per day to 49.8 pounds per day, which would be below the SCAQMD threshold of 75 pounds per day. Operational impacts are also anticipated to be minimal and consistent with surrounding land uses.

In addition, the proposed Project is consistent with SCAQMD's 2022 AQMP, reflecting adherence to regional air quality management goals and standards. During construction, any odors produced would be temporary and not significantly objectionable. Additionally, the proposed Project involves land uses that do not typically generate significant odor complaints and complies with SCAQMD Rule 402, which addresses potential odor impacts. Furthermore, the Project would involve demolition of existing on-site buildings and would comply with SCAQMD Rule 1403, which establishes requirements for asbestos

surveying and handling during demolition.

Thus, the proposed Project's impacts related to air quality would be less than significant, with implementation of Mitigation Measure AQ-1.

Energy

The CEQA Guidelines do not have specific numerical thresholds for energy consumption. Rather, the questions in Appendix G, (VI) Energy, ask: (a) "[Would the proposed Project] Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?" and (b) "[Would the project] Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?"[13] Therefore, for the purpose of this analysis, a significant impact would occur if:

a) The project design and/or location encourages wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, as well as the use of fuel by vehicles anticipated to travel to and from the project; or
b) The project design impedes the growth of future renewable energy developments.

Southern California Edison and the Southern California Gas Company would provide electricity and natural gas, respectively, for construction and operation of the proposed Project. The following tools were used to calculate the energy (electricity, natural gas, and petroleum) consumption of the proposed Project:

- Construction equipment fuel consumption was derived from the CARB OffRoad2021 emission model.
- Fuel consumption from vehicle travel was derived from the CARB EMFAC2021 emission model.
- Electrical and natural gas usage was derived from CalEEMod (Version 2022.1).
- Electricity consumption was derived from CalEEMod (Version 2022.1).

Due to the Project size and the fact that construction is temporary, the electricity used during construction of the proposed Project would be substantially less than that required for Project operation and would have a negligible contribution to the Project's overall energy consumption. The electric power used would be for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers. Natural gas is not anticipated to be needed for construction activities. Any natural gas consumption during construction would be minor and negligible in comparison with countywide consumption.

Construction

Construction equipment associated with construction activities (off-road/heavy duty vehicles) would rely on diesel fuel, as would vendor and haul trucks involved in delivering building materials and removing demolition debris from the Project site. Construction workers would travel to and from the Project site throughout the duration of construction, and for a conservative analysis, it is assumed that construction workers would travel in gasoline-powered passenger vehicles. The proposed Project's construction vehicle fuel usage is based on vehicle miles traveled (VMT) and fuel usage factors contained in the CARB EMFAC2021 model, which are included in Attachment B, *Detailed Calculation Sheets.* The trips included are those of worker vehicles, vendor vehicles, and haul vehicles. Construction equipment would be transported to the site and operated on-site only. Please refer to Attachment B for the total fuel

[13] California Energy Commission. (2023). *CEQA Statutes and Guidelines Attachment 10 Appendix G: Environmental Checklist Form*. https://www.energy.ca.gov/sites/default/files/2024-01/11_Attachment_10_-_Appendix_G_from_CEQA_Handbook_ada.docx

consumption and horsepower-hour data contained within the CARB Off-Road 2021 emission model for specific types of diesel construction equipment.

As shown in Table 7, *Total Construction Fuel Usage*, construction of the proposed Project would require a total of 46,767 gallons of diesel fuel and 9,703.1 gallons of gasoline fuel from construction vehicles. As shown in Table 7, this would result in a 0.14 percent increase in countywide construction diesel fuel consumption and a less than 0.01 percent increase in countywide on-road gasoline consumption. Thus, increased energy consumption from the construction of the proposed Project would be nominal compared to countywide consumption. Additionally, it should be noted that this total fuel consumption is a conservative analysis and would likely overstate the amount of fuel usage, as specific construction equipment (e.g., crane) is not expected to operate during the entire duration of the construction activity.

Table 8: Total Construction Fuel Usage

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	12,652.0	9,703.1
Off-Road Construction Equipment	34,115.0	-
Total	**46,767.0**	**9,703.1**
San Bernardino Countywide Consumption	32,633,908.5	487,632,515.4
Percentage Increase	**0.14%**	**<0.01%**

Source: CalEEMod Output Sheets (see Attachment A.1) and Detailed Calculation Sheets (see Attachment B)

Operation

Operation of the proposed Project would consume electricity, natural gas, and gasoline. Electricity consumption for the proposed Project can be found in Attachment A.1.1, *CalEEMod Output Sheets*. The gasoline consumption rates utilize the same assumptions that were used for construction worker vehicles. The Project's estimated energy consumption is shown in Table 6, *Project Annual Operational Energy Requirements*, below. The proposed Project is expected to require consumption of electricity, natural gas, and gasoline. However, the proposed Project's energy consumption would be consistent with similar sized projects and would not constitute an inefficient use of energy. As shown in Table 6, operation of the proposed Project would result in a countywide electricity increase of less than 0.01 percent and a countywide natural gas increase of less than 0.01 percent within San Bernardino County. The on-road fuel consumption from the Project would result in a 0.02 percent increase in countywide gasoline consumption. Thus, the Project's operational energy consumption would be nominal at the countywide scale.

Table 9: Project Annual Operational Energy Requirements

Proposed Project Energy Consumption	San Bernardino Countywide Energy Consumption	Percentage Increase
Electricity (Kilowatt-Hour)		
684,866	282,783,000,000	<0.01%
Natural Gas (Thousands British Thermal Units)		
2,816,074	1,110,400,000,000	<0.01%
Petroleum (Gasoline Fuel) Consumption (Gallons)		
2,658,939	488,000,000	0.02%

Source: CalEEMod Output Sheets (see Attachment A.1) and Detailed Calculation Sheets (see Attachment B)

Future Renewable Energy Developments

The proposed Project would be required to meet the CCR Title 24 State Building Energy Efficiency Standards, appliance efficiency regulations, and green building standards in effect during permitting of the proposed Project and comply with all applicable County energy codes. The County's administration of energy efficiency requirements includes review of design components and energy conservation measures during the permitting process to ensure that all requirements are met. In addition, the Project buildings would be installed with solar in compliance with current Title 24 requirements, which requires single family and multifamily new residential units to include the installation of solar photovoltaic (PV) systems. As such, the Project would not inhibit the use of and would allow for future flexibility relating to renewable energy.

Conclusion

As described above, the Project would not result in significant impacts related to energy. Construction activities associated with the proposed Project are not expected to result in fuel demand, on a per-unit-of-development basis, that exceeds that of comparable residential projects in Southern California. The Project does not include any unusual characteristics that would require the use of construction equipment with lower energy efficiency than that used for typical residential development. In addition, construction activities would comply with applicable regulations aimed at reducing energy consumption and emissions, including restrictions on vehicle idling, fuel standards, and equipment efficiency requirements, and estimated energy consumption from construction of the Project would be nominal compared to the energy consumption of the region.

During operation, the Project's operational energy demand would be consistent with that of similar residential developments and energy consumption from the operation of the Project would be nominal compared to that of the region. In addition, the operation of the Project would be similar to other residential projects within the County and would be required to meet CCR Title 24 energy efficiency standards and comply with all applicable County energy codes. The Project buildings would also be solar-installed in compliance with current Title 24 requirements.

Therefore, the Project would not inhibit the use of and would allow for future flexibility relating to renewable energy, nor would it result in wasteful, inefficient, or unnecessary consumption of energy. Impacts related to energy would be less than significant.

Greenhouse Gas Emissions

Regulatory Background and Thresholds

California State Executive Order S-3-05, issued by Governor Arnold Schwarzenegger in June 2005, established comprehensive GHG reduction targets for the State.[14] It mandated reducing GHG emissions to 2000 levels by 2010, to 1990 levels by 2020, and to 80 percent below 1990 levels by 2050. This Executive Order laid the foundation for subsequent climate change mitigation efforts in California, including the development of various policies and programs aimed at reducing emissions across sectors such as transportation, energy, and industry. The objective of the Executive Order is to contribute to capping worldwide CO_2 concentrations at 450 parts-per-million (ppm), stabilizing global climate change.

The SCAQMD convened a GHG Emissions CEQA Significance Threshold Working Group to help lead agencies determine significance thresholds for GHG emissions when the SCAQMD is not the lead agency. The last working group was held in September 2010 (Meeting No. 15) and proposed a tiered approach (Tier 1 to Tier 5), which involves different methods to determine significance of GHG emissions.[15] This assessment will apply the Tier 3 (Numerical Screening Thresholds) approach. Tier 3 consists of screening values which the lead agency can choose from, but it must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project impact would be less than significant:

- Option 1, all land use types: 3,000 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year
- Option 2, based on land use type:
    - Residential: 3,500 $MTCO_2e$ per year
    - Commercial: 1,400 $MTCO_2e$ per year
    - Mixed-use: 3,000 $MTCO_2e$ per year

For projects within unincorporated San Bernardino County, the County's Greenhouse Gas Emissions Development Review Process Screening Tables (2021) establish a Development Review Process (DRP) for evaluating GHG emissions and determining whether additional GHG analysis is required. The County's DRP uses a review standard of 3,000 $MTCO_2e$ per year to identify projects that require use of the County's GHG Screening Tables or a project-specific technical analysis to quantify and mitigate GHG emissions. Projects that exceed 3,000 $MTCO_2e$ per year are subject to additional analysis through the Screening Tables or an equivalent project-specific GHG analysis. The County's Screening Tables provide measures related to energy efficiency, renewable energy, water conservation, transportation, and other strategies to reduce GHG emissions.

[14] Executive Department State of California Executive Order S-3-05: https://www.library.ca.gov/wp-content/uploads/GovernmentPublications/executive-order-proclamation/5129-5130.pdf

[15] SCAQMD. (2010). *Minutes of the GHG CEQA Significance Threshold Stakeholder Working Group #15.* http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf

Accordingly, the 3,000 $MTCO_2e$ per year review standard established by the County's 2021 GHG Screening Tables is the applicable screening level for this Project. The County's current Environmental and Greenhouse Gas Plan webpage identifies the 2021 GHG Reduction Plan Update and associated 2021 Screening Tables as the County's current GHG planning and development review materials.

GHG Adjustment Factors

The EMFAC2021 GHG off-model adjustment factors were not applied to the Project's GHG emissions analysis. These adjustment factors primarily affect heavy-duty vehicle emissions, while the Project consists of 112 single-family residential units and would generate predominantly light-duty vehicle trips during operation.

Project GHG Emissions

The Project's construction GHG emissions are shown in Table 9, *Project Construction GHG Emissions*, and the overall construction and operational emissions are shown in Table 10, *Total Project GHG Emissions*, below. These emissions were calculated using CalEEMod, consistent with guidance from SCAQMD.

CalEEMod was used to quantify the Project's GHG emissions, including mobile-source emissions, based on the applicable emission factors incorporated into the model. The construction emissions are amortized over 30 years and added to the Project's operational emissions, consistent with SCAQMD methodology. As shown in Table 10, the Project's construction and operational GHG emissions would total 1,282 $MTCO_2e$ per year, which is below the County of San Bernardino's 3,000 $MTCO_2e$-per-year review standard established under the 2021 GHG Reduction Plan. Therefore, the Project's GHG emissions would be less than significant.

Table 10: Project Construction GHG Emissions

Activity	Annual GHG Emissions ($MTCO_2e$)
2027	308
2028	157
Total Emissions	**465**
Total Emissions Amortized Over 30 Years	16

Source: CalEEMod output sheets are provided in Attachment A.1, and the detailed calculation sheets are provided in Attachment B.

Table 11: Total Project GHG Emissions

Activity	Annual GHG Emissions ($MTCO_2e$)[1]
Mobile	938
Area	23
Energy	258
Water	16
Waste	31
Refrigeration	1

Total Project Operation Emissions	**1,266**
Amortized Construction Emissions	16
Total Project Emissions	**1,282**
Significance Threshold	3,000
Threshold Exceeded?	**No**

1. Values may vary slightly due to rounding; see Attachment C, Detailed Calculation Sheets.
Source: CalEEMod output sheets are provided in Attachment A.1, and the detailed calculation sheets are provided in Attachment B.

Greenhouse Gas Reduction Plans Consistency

Project Consistency with the County of San Bernardino Regional GHG Reduction Plan

The Project would be consistent with the County of San Bernardino's Greenhouse Gas Reduction Plan Update (2021) and associated DRP. The County's GHG Reduction Plan establishes a 3,000 $MTCO_2e$ per year review standard to determine whether a project requires additional GHG reduction analysis through the County's Screening Tables or a project-specific technical analysis. Projects exceeding the 3,000 $MTCO_2e$ per year review standard are subject to additional analysis and GHG reduction measures identified through the County's Screening Tables or an equivalent project-specific analysis.

As shown in Table 10, the Project's total annual GHG emissions, including amortized construction emissions, would be approximately 1,282 $MTCO_2e$ per year, which is below the County's 3,000 $MTCO_2e$ per year review standard. Therefore, the Project would not trigger the additional GHG reduction analysis required under the County's DRP. Based on the Project's emissions being below the County's applicable screening level, the Project would be consistent with the GHG Reduction Plan and would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions.

Project Consistency with the SCAG 2024-2050 RTP/SCS

The Project site lies within the SCAG region and is therefore subject to the regional planning framework outlined in the SCAG 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy (2024–2050 RTP/SCS). As described in the *Air Quality* analysis above, the Project would not generate population or employment growth beyond what was anticipated in the 2020–2045 RTP/SCS and would therefore not conflict with SCAG's regional growth projections. The 2020–2045 RTP/SCS is discussed in the AQMP consistency analysis because it provides the growth assumptions underlying the 2022 AQMP; however, the current SCAG consistency analysis is based on the 2024–2050 RTP/SCS.

The Project would also support applicable goals of the 2024–2050 RTP/SCS related to VMT, promoting compact and efficient land use patterns, expanding multimodal transportation options, and reducing GHG emissions from transportation. The Project would provide residential development within an existing developed area surrounded by existing residential uses, supporting efficient use of existing infrastructure and reducing the need for development in more remote areas. The Project would also increase residential density relative to the existing land use designation, consistent with SCAG's objective of supporting compact development patterns.

As described above, the Project's 90 residential units would accommodate approximately 283 residents. Based on SCAG's 2024 Regional Growth Forecast, San Bernardino County had a population of approximately 2,175,000 in 2019 and is projected to reach approximately 2,623,000 residents by 2050

(SCAG, 2024). The Project's 283 residents would represent approximately 0.06 percent of the County's anticipated growth between 2019 and 2050. Therefore, the Project would not generate population growth beyond what was anticipated in the 2024–2050 RTP/SCS and would therefore not conflict with SCAG's regional growth projections.[16]

In addition, the Project would provide sidewalks along the Project frontages and throughout the site, providing pedestrian connections between the proposed residences and surrounding areas. The Project site is also located within the Omnitrans service area, with existing bus service in the surrounding area. These features would support alternative modes of transportation and reduce reliance on single-occupancy vehicle travel. Therefore, based on the Project's location, proposed development pattern, increased residential density, pedestrian improvements, and proximity to existing transit service, the Project would be consistent with applicable goals and strategies of the SCAG 2024–2050 RTP/SCS and would not conflict with regional efforts to reduce VMT and GHG emissions.

Project Consistency with the 2022 CARB Scoping Plan

The CARB 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) sets California's GHG emission reduction target for 2045 at 85 percent below 1990 levels, which was codified by SB 32.[17] The 2022 Scoping Plan establishes sector-specific regulations and actions necessary to achieve carbon neutrality by 2045, including emissions reductions from building energy, transportation, waste, and land use. The Project would implement all mandatory measures in effect at the time of construction and operation, including compliance with the 2025 update to the California Building Standards Code (Title 24), which incorporates the California Energy Code and CALGreen Code.

Table 11, *2022 Scoping Plan Consistency Summary*, demonstrates that the Project would comply with all applicable actions in the 2022 Scoping Plan intended to reduce GHG emissions.

[16] Southern California Association of Governments (SCAG). (2024). Demographics and Growth Forecast Technical Report. https://www.scag.ca.gov/sites/default/files/2024-05/23-2987-tr-demographics-growth-forecast-final-0...

[17] California Air Resources Board. (2022). California's 2022 Climate Change Scoping Plan Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory Sectors. Referenced at https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

Table 12: 2022 Scoping Plan Consistency Summary

Action	Consistency
GHG Emissions Reductions Relative to the SB 32 Target	
40% Below 1990 levels by 2030.	**Consistent.** The Project would comply with Title 24, Part 6 building energy requirements along with other local and State initiatives that aim to achieve the 40 percent below 1990 levels by 2030 goal.
Smart Growth/Vehicle Miles Traveled VMT	
VMT per capita reduced 25% below 2019 levels by 2030, and 30% below 2019 levels by 2045.	**Consistent.** As discussed in the VMT analysis, the Project site is located within a low VMT-generating area. The SBCTA VMT Screening Tool indicates that the Project's Traffic Analysis Zone (TAZ 53607302) generates 16.2 VMT per resident, which is below the Countywide average of 18.6 VMT per resident. The Project would also maintain residential land uses, and the proposed General Plan Amendment would change the existing residential land use designation to another residential designation, which would be expected to result in similar trip lengths as the existing residential uses within the Project TAZ. Therefore, the Project would satisfy the County's Low VMT Area Screening criterion and would not require further VMT analysis. Based on its location within a low VMT-generating area and its consistency with planned residential growth, the Project would not conflict with the VMT reduction goals and strategies identified in the 2024–2050 RTP/SCS.
Light-Duty Vehicle (LDV) Zero-Emission Vehicles (ZEVs)	
100% of LDV sales are ZEV by 2035.	**Not Applicable.** The proposed Project is a residential development and does not propose the sale of vehicles. However, the Project would be required to comply with applicable Title 24 Part 6 energy requirements, including electric vehicle (EV) infrastructure requirements (EV capable/EV-ready parking spaces and associated EV capacity).
Truck ZEVs	
100% of medium-duty (MDV)/HDC sales are ZEV by 2040 (AB 74 University of California Institute of Transportation Studies [ITS] report).	**Not Applicable.** The proposed Project is a residential development and does not propose the sale of trucks.
Aviation	
20% of aviation fuel demand is met by electricity (batteries) or hydrogen (fuel cells) in 2045. Sustainable aviation fuel meets most or the rest of the aviation fuel demand that has not already transitioned to hydrogen or batteries.	**Not Applicable.** The proposed Project is a residential development and would not utilize aviation fuel.

Action	Consistency
Ocean-Going Vessels (OGV)	
2020 OGV At-Berth regulation fully implemented, with most OGVs utilizing shore power by 2027. 25% of OGVs utilize hydrogen fuel cell electric technology by 2045.	**Not Applicable.** The proposed Project is a residential development and would not utilize any OGVs.
Port Operations	
100% of cargo handling equipment is zero-emission by 2037. 100% of drayage trucks are zero emission by 2035.	**Not Applicable.** The proposed Project is a residential development and would not impact any operations at any ports.
Freight and Passenger Rail	
100% of passenger and other locomotive sales are ZEV by 2030. 100% of line haul locomotive sales are ZEV by 2035. Line haul and passenger rail rely primarily on hydrogen fuel cell technology, and others primarily utilize electricity.	**Not Applicable.** The proposed Project is a residential development and would not involve any freight or passenger rail operations.
Oil and Gas Extraction	
Reduce oil and gas extraction operations in line with petroleum demand by 2045.	**Not Applicable.** The proposed Project is a residential development and would not involve oil and gas extraction operations.
Petroleum Refining	
CCS on majority of operations by 2030, beginning in 2028. Production reduced in line with petroleum demand.	**Not Applicable.** The proposed Project is a residential development and would not involve any petroleum refining.
Electricity Generation	
Sector GHG target of 38 million metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2030 and 30 $MMTCO_2e$ in 2035. Retail sales load coverage13420 gigawatts (GW) of offshore wind by 2045. Meet increased demand for electrification without new fossil gas-fired resources.	**Not Applicable.** The proposed Project is a residential development and would not be a source of electricity generation.
New Residential and Commercial Buildings	
All electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed statewide by 2030.	**Consistent.** The proposed Project would comply with Title 24, Part 6 energy efficiency requirements, including provisions supporting electrification such as electrical infrastructure for built-in appliances. The Project would be predominantly all-electric, with electricity serving primary end uses. Limited natural gas use may occur for fireplaces; however, these features represent a minor, non-essential energy load and do not serve primary building functions.
Existing Residential Buildings	
80% of appliance sales are electric by 2030 and 100% of appliance sales are electric by 2035.	**Consistent.** The proposed Project would demolish the existing on-site residence; therefore, no long-term operation of existing residential appliances would occur.

Action	Consistency
Appliances are replaced at end of life such that by 2030 there are 3 million all-electric and electric-ready homes—and by 2035, 7 million homes—as well as contributing to 6 million heat pumps installed statewide by 2030**.**	While the 90 proposed fireplaces do have the potential to be fueled by natural gas, it would not serve as a primary building function. The Project would otherwise be designed as all-electric in compliance with Title 24, Part 6 energy efficiency requirements. Accordingly, the Project would not conflict with statewide targets for increasing the prevalence of electric appliances in existing residential buildings.
Existing Commercial Buildings	
80% of appliance sales are electric by 2030, and 100% of appliance sales are electric by 2045. Appliances are replaced at end of life, contributing to 6 million heat pumps installed statewide by 2030.	**Not Applicable.** The proposed Project would demolish the existing on-site residence; and does not contain any existing commercial buildings. As the Project proposes residential uses, the Project would not propose or include the sales of appliances.
Food Products	
7.5% of energy demand electrified directly and/or indirectly by 2030; 75% by 2045.	**Not Applicable.** The Project is a residential development and would not involve mass food production. However, the Project's proposed residential land use would inherently include food storage and preparation within individual dwelling units. Accordingly, the Project would comply with Title 24, Part 6 and Part 11, efficiency standards, which would require high-efficiency appliances such as household refrigerators and other appliances, supporting efficient energy use in the preparation and storage of food products.
Construction Equipment	
25% of energy demand electrified by 2030 and 75% electrified by 2045.	**Consistent.** The proposed Project would be required to use construction equipment that is registered by CARB and meet CARB's standards. CARB sets its standards to be in line with the goal of reducing energy demand by 25 percent in 2030 and 75 percent in 2045.
Chemicals and Allied Products; Pulp and Paper	
Electrify 0% of boilers by 2030 and 100% of boilers by 2045. Hydrogen for 25% of process heat by 2035 and 100% by 2045. Electrify 100% of other energy demand by 2045.	**Not Applicable.** The proposed Project is a residential development and would not involve the production and/or storage of chemicals and allied products like pulp and paper.
Stone, Clay, Glass, and Cement	
CCS on 40% of operations by 2035 and on all facilities by 2045. Process emissions reduced through alternative materials and CCS.	**Not Applicable.** The proposed Project is a residential development and would not involve the production and/or storage of stone, clay, glass, and/or cement.
Other Industrial Manufacturing	
0 percent energy demand electrified by 2030 and 50% by 2045.	**Not Applicable.** The proposed Project is a residential development and does not include any industrial manufacturing uses.

Action	Consistency
Combined Heat and Power	
Facilities retire by 2040.	**Not Applicable.** The proposed Project is a residential development and would not involve any existing combined heat and power facilities.
Agriculture Energy Use	
25% energy demand electrified by 2030 and 75% by 2045.	**Not Applicable.** The proposed Project is a residential development and would not involve any agricultural uses.
Low Carbon Fuels for Transportation	
Biomass supply is used to produce conventional and advanced biofuels, as well as hydrogen.	**Not Applicable.** The proposed Project is a residential development and would not involve any production of biofuels.
Low Carbon Fuels for Buildings and Industry	
In 2030s, biomethane135 blended in pipeline Renewable hydrogen blended in fossil gas pipeline at 7% energy (~20% by volume), ramping up between 2030 and 2040. In 2030s, dedicated hydrogen pipelines constructed to serve certain industrial clusters	**Not Applicable.** The proposed Project is a residential development and would not involve any production of fuels for buildings and industry.
Non-Combustion Methane Emissions	
Increase landfill and dairy digester methane capture. Some alternative manure management deployed for smaller dairies. Moderate adoption of enteric strategies by 2030. Divert 75% of organic waste from landfills by 2025. Oil and gas fugitive methane emissions reduced 50% by 2030 and further reductions as infrastructure components retire in line with reduced fossil gas demand	**Not Applicable.** The proposed Project is a residential development and would not involve any production of non-combustion methane emissions or organic waste.
High GWP Potential Emissions	
Low GWP refrigerants introduced as building electrification increases, mitigating HFC emissions.	**Not Applicable.** The proposed Project is a residential development and does not propose cold storage uses. However, the Project's proposed residential land use would include refrigeration and space conditioning systems that rely on refrigerants, such as refrigerators and heat pumps. The Project would comply with Title 24 requirements that limit high GWP refrigerants and promote low GWP alternatives for residential appliances.

Source: CARB. (2022). *California's 2022 Climate Change Scoping Plan Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory Sectors.* Referenced at: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf.

Table 12, *Local Action Policies (Appendix D of the 2022 Scoping Plan)*, identifies GHG reduction measures for implementation by local governments. These local policies focus on climate action planning and approval of new land use development projects. The Project is consistent with these measures and would not conflict with any plan, policy, or regulation adopted for the purpose of reducing GHG emissions within the 2022 Scoping Plan.

Table 13: Local Action Policies (Appendix D of the 2022 Scoping Plan)

Action	Consistency
VMT Reduction	
Adopt and implement Complete Streets policies and investments, consistent with general plan circulation element requirements.	**Consistent.** The proposed Project would install new sidewalks along Project frontage on Pipeline Avenue and Philips Boulevard and would include sidewalks throughout the site to provide pedestrian circulation within the Project and connections to adjacent off-site areas, enhancing existing conditions and supporting the County's Complete Streets goals.
Increase public access to shared clean mobility options (such as planning for and investing in electric shuttles, bike share, car share, transit).	**Consistent.** The Project would construct sidewalks along Project frontage on Pipeline Avenue and Philips Boulevard and include sidewalks throughout the site to provide pedestrian circulation within the project and connections to adjacent off-site areas. In addition, the Project Site is within the service area of Omnitrans, with bus service along Ramona Avenue (Route 88). The nearest bus stop is located at Ramona Avenue and Phillips Boulevard, approximately 0.3 miles to the east. The Project would not conflict with or alter the existing transit service in the area.
Amend zoning or development codes to enable mixed-use, walkable, and compact infill development (such as increasing allowable density of the neighborhood).	**Consistent.** Implementation of the proposed Project would require both a General Plan Amendment (GPA) and zone change, to change the General Plan Land Use Designation from Very Low Density Residential (VLDR) to Special Development (SD) Planned Development and zoning from Single Residential – One Acre Minimum (RS-1) to Single Residential (RS). The Project's proposed GPA and zone change would allow for the proposed 90 single-family units at a density of 3.7 dwelling units per acre, compared to the previous density allowance of 2 dwelling units per acre under the current designations. The Project would also provide residential development within an existing urban area surrounded by existing residential uses, consistent with compact infill development objectives and efficient land use patterns.
Building Decarbonization	
Adopt all-electric new construction reach codes.	**Consistent**. The proposed Project would comply with Title 24 Parts 6 and 11, including installation of electric heat pumps during construction and electric hookups for all appliances. While the 90 proposed fireplaces do have the potential to be fueled by natural gas, it would not serve as a primary building function. The Project would otherwise be designed as all-electric in compliance with Title 24, Part 6 energy efficiency requirements. Accordingly, the Project would not conflict with statewide targets for increasing the prevalence of electric appliances in existing residential buildings.
Adopt policies and incentive programs to reduce electrical loads from equipment plugged into outlets (such as purchasing Energy Star equipment for municipal buildings, occupancy sensors, smart power strips, equipment controllers, etc.).	**Consistent.** The proposed Project would be constructed in accordance with Title 24 CALGreen requirements, which includes installation of Energy Star equipment and appliances in new buildings.

Action	Consistency
Facilitate deployment of renewable energy production and distribution and energy storage.	**Consistent.** The proposed Project would be constructed in accordance with the California Energy Code (Title 24 Part 6) to meet all requirements related to solar energy production and the CALGreen Building Energy Efficiency Standards (Title 24 Part 11) to meet efficiency standards.

Source: California Air Resources Board. (2022). *California's 2022 Climate Change Scoping Plan Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory Sectors*. Referenced at: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

Conclusion

The construction and operational GHG emissions of the proposed Project would result in a total of 1,282 $MTCO_2e$ per year, which is below the County of San Bernardino's 3,000 $MTCO_2e$ per year screening level established under the County's GHG Reduction Plan and the SCAQMD Tier 3 significance threshold. Additionally, the Project would not conflict with the County of San Bernardino Regional GHG Reduction Plan or the SCAG 2024–2050 RTP/SCS. As shown in Tables 11 and 12, the Project would also not conflict with the 2022 CARB Scoping Plan, which establishes policies and measures for reducing GHG emissions. Therefore, the Project would not conflict with applicable plans or policies established for reducing GHG emissions. Overall, the Project's GHG emissions impacts would be less than significant.

ATTACHMENT A.1 – CALEEMOD OUTPUT SHEETS

25-093 Nerio Farms Chino Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	25-093 Nerio Farms Chino
Construction Start Date	7/1/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60000
Precipitation (days)	18.8000
Location	34.044717260719196, -117.71414611062656
County	San Bernardino-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5213
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.43

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	90.0000	Dwelling Unit	17.8300	714,334	421,800	—	335.000	—

City Park	0.45000	Acre	0.45000	0.00000	0.00000	0.00000	—	—
Other Asphalt Surfaces	5.29000	Acre	5.29000	0.00000	0.00000	—	—	—
Other Non-Asphalt Surfaces	0.59000	Acre	0.59000	0.00000	0.00000	—	—	—
Other Asphalt Surfaces	0.24000	Acre	0.24000	0.00000	0.00000	—	—	Offsite ROW Improvements

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	228.634	62.5148	62.1630	0.12526	15.2421	6.56623	15,739.8
Mit.	49.7920	62.5148	62.1630	0.12526	15.2421	6.56623	15,739.8
% Reduced	78%	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	1.24252	10.6166	15.8392	0.02771	0.87474	0.46177	3,345.29
Mit.	1.24252	10.6166	15.8392	0.02771	0.87474	0.46177	3,345.29
% Reduced	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	12.7967	6.24935	7.89211	0.01529	0.84117	0.39049	1,860.70
Mit.	2.99712	6.24935	7.89211	0.01529	0.84117	0.39049	1,860.70
% Reduced	77%	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—
Unmit.	2.33540	1.14051	1.44031	0.00279	0.15351	0.07126	308.060
Mit.	0.54697	1.14051	1.44031	0.00279	0.15351	0.07126	308.060
% Reduced	77%	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	75.0000	100.0000	550.000	150.000	150.000	55.0000	—
Unmit.	Yes	No	No	No	No	No	—
Mit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	75.0000	100.0000	550.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	—
Mit.	No	No	No	No	No	No	—

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	7.06532	62.5148	62.1630	0.12526	15.2421	6.56623	15,739.8
2028	228.634	11.1610	18.0993	0.03001	0.94093	0.46243	3,634.39
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	1.24252	10.6166	15.8392	0.02771	0.87474	0.46177	3,345.29
2028	1.19724	10.0752	15.7096	0.02771	0.83575	0.42374	3,331.51
Average Daily	—	—	—	—	—	—	—
2027	0.73687	6.24935	7.89211	0.01529	0.84117	0.39049	1,860.70
2028	12.7967	2.88356	4.52083	0.00788	0.23792	0.12027	948.256

Annual	—	—	—	—	—	—	—
2027	0.13448	1.14051	1.44031	0.00279	0.15351	0.07126	308.060
2028	2.33540	0.52625	0.82505	0.00144	0.04342	0.02195	156.995

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	6.88829	60.7113	58.7009	0.11307	13.0693	6.32236	12,290.3
2028	228.475	10.7378	15.5268	0.02785	0.34609	0.31840	2,817.80
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
2028	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Average Daily	—	—	—	—	—	—	—
2027	0.68529	5.81668	7.05561	0.01302	0.59368	0.32557	1,372.52
2028	12.7602	2.76241	4.00951	0.00728	0.09224	0.08486	748.343
Annual	—	—	—	—	—	—	—
2027	0.12507	1.06154	1.28765	0.00238	0.10835	0.05942	227.236
2028	2.32873	0.50414	0.73174	0.00133	0.01683	0.01549	123.897

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	0.25293	7.06606	6.12105	0.04167	2.17277	0.63577	6,749.39
2028	0.15941	0.42316	2.57250	0.00216	0.59484	0.14403	816.583
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	0.13056	0.44403	1.80235	0.00216	0.51014	0.12634	706.560

2028	0.12627	0.41492	1.67381	0.00216	0.51014	0.12417	692.338
Average Daily	—	—	—	—	—	—	—
2027	0.05158	0.43268	0.83650	0.00227	0.24749	0.06491	488.176
2028	0.03651	0.12115	0.51132	0.00061	0.14568	0.03541	199.913
Annual	—	—	—	—	—	—	—
2027	0.00941	0.07896	0.15266	0.00041	0.04517	0.01185	80.8231
2028	0.00666	0.02211	0.09332	0.00011	0.02659	0.00646	33.0979

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	7.06532	62.5148	62.1630	0.12526	15.2421	6.56623	15,739.8
2028	49.7920	11.1610	18.0993	0.03001	0.94093	0.46243	3,634.39
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	1.24252	10.6166	15.8392	0.02771	0.87474	0.46177	3,345.29
2028	1.19724	10.0752	15.7096	0.02771	0.83575	0.42374	3,331.51
Average Daily	—	—	—	—	—	—	—
2027	0.73687	6.24935	7.89211	0.01529	0.84117	0.39049	1,860.70
2028	2.99712	2.88356	4.52083	0.00788	0.23792	0.12027	948.256
Annual	—	—	—	—	—	—	—
2027	0.13448	1.14051	1.44031	0.00279	0.15351	0.07126	308.060
2028	0.54697	0.52625	0.82505	0.00144	0.04342	0.02195	156.995

2.2.5. Onsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—
2027	6.88829	60.7113	58.7009	0.11307	13.0693	6.32236	12,290.3
2028	49.6325	10.7378	15.5268	0.02785	0.34609	0.31840	2,817.80
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
2028	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Average Daily	—	—	—	—	—	—	—
2027	0.68529	5.81668	7.05561	0.01302	0.59368	0.32557	1,372.52
2028	2.96061	2.76241	4.00951	0.00728	0.09224	0.08486	748.343
Annual	—	—	—	—	—	—	—
2027	0.12507	1.06154	1.28765	0.00238	0.10835	0.05942	227.236
2028	0.54031	0.50414	0.73174	0.00133	0.01683	0.01549	123.897

2.2.6. Offsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2027	0.25293	7.06606	6.12105	0.04167	2.17277	0.63577	6,749.39
2028	0.15941	0.42316	2.57250	0.00216	0.59484	0.14403	816.583
Daily - Winter (Max)	—	—	—	—	—	—	—
2027	0.13056	0.44403	1.80235	0.00216	0.51014	0.12634	706.560
2028	0.12627	0.41492	1.67381	0.00216	0.51014	0.12417	692.338
Average Daily	—	—	—	—	—	—	—
2027	0.05158	0.43268	0.83650	0.00227	0.24749	0.06491	488.176
2028	0.03651	0.12115	0.51132	0.00061	0.14568	0.03541	199.913
Annual	—	—	—	—	—	—	—
2027	0.00941	0.07896	0.15266	0.00041	0.04517	0.01185	80.8231
2028	0.00666	0.02211	0.09332	0.00011	0.02659	0.00646	33.0979

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	19.9097	4.57219	28.5944	0.07211	5.44423	1.54208	9,800.30
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	19.2825	4.69199	19.9967	0.06826	5.44187	1.54031	9,405.68
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	19.4534	3.34313	23.3564	0.05948	5.20935	1.39814	7,647.63
Annual (Max)	—	—	—	—	—	—	—
Unmit.	3.55024	0.61012	4.26254	0.01085	0.95071	0.25516	1,266.15
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	55.0000	55.0000	550.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	55.0000	55.0000	550.000	150.000	150.000	55.0000	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Annual)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	3,000.00
Unmit.	—	—	—	—	—	—	No

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
Area	17.0853	1.54129	5.75027	0.00975	0.12310	0.12251	1,910.68

Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606
Total	19.9097	4.57219	28.5944	0.07211	5.44423	1.54208	9,800.30
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
Area	16.6403	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606
Total	19.2825	4.69199	19.9967	0.06826	5.44187	1.54031	9,405.68
Average Daily	—	—	—	—	—	—	—
Mobile	2.54800	2.49674	19.5069	0.05413	5.14196	1.33115	5,663.20
Area	16.8638	0.13537	3.54692	0.00080	0.00991	0.00950	139.314
Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606
Total	19.4534	3.34313	23.3564	0.05948	5.20935	1.39814	7,647.63
Annual	—	—	—	—	—	—	—
Mobile	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608
Area	3.07764	0.02471	0.64731	0.00015	0.00181	0.00173	23.0650
Energy	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	258.008
Water	—	—	—	—	—	—	16.0778
Waste	—	—	—	—	—	—	30.5461
Refrig.	—	—	—	—	—	—	0.84702

Total	3.55024	0.61012	4.26254	0.01085	0.95071	0.25516	1,266.15

2.5. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
Area	17.0853	1.54129	5.75027	0.00975	0.12310	0.12251	1,910.68
Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606
Total	19.9097	4.57219	28.5944	0.07211	5.44423	1.54208	9,800.30
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
Area	16.6403	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606
Total	19.2825	4.69199	19.9967	0.06826	5.44187	1.54031	9,405.68
Average Daily	—	—	—	—	—	—	—
Mobile	2.54800	2.49674	19.5069	0.05413	5.14196	1.33115	5,663.20
Area	16.8638	0.13537	3.54692	0.00080	0.00991	0.00950	139.314
Energy	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	1,558.38
Water	—	—	—	—	—	—	97.1105
Waste	—	—	—	—	—	—	184.500
Refrig.	—	—	—	—	—	—	5.11606

Total	19.4534	3.34313	23.3564	0.05948	5.20935	1.39814	7,647.63
Annual	—	—	—	—	—	—	—
Mobile	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608
Area	3.07764	0.02471	0.64731	0.00015	0.00181	0.00173	23.0650
Energy	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	258.008
Water	—	—	—	—	—	—	16.0778
Waste	—	—	—	—	—	—	30.5461
Refrig.	—	—	—	—	—	—	0.84702
Total	3.55024	0.61012	4.26254	0.01085	0.95071	0.25516	1,266.15

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	2.21478	19.9005	18.6307	0.03253	0.79594	0.73226	3,438.66
Demolition	—	—	—	—	4.99121	0.75581	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.06068	0.54522	0.51043	0.00089	0.02181	0.02006	94.2098
Demolition	—	—	—	—	0.13675	0.02071	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.01107	0.09950	0.09315	0.00016	0.00398	0.00366	15.5975

Demolition	—	—	—	—	0.02496	0.00378	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06184	0.05241	1.00547	0.00000	0.19606	0.04596	205.696
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.09326	6.95250	3.94253	0.04167	1.74797	0.53620	6,303.71
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00159	0.00179	0.02175	0.00000	0.00531	0.00124	5.23753
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00250	0.19983	0.10829	0.00114	0.04747	0.01459	172.554
Annual	—	—	—	—	—	—	—
Worker	0.00029	0.00033	0.00397	0.00000	0.00097	0.00023	0.86713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00046	0.03647	0.01976	0.00021	0.00866	0.00266	28.5683

3.1.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	2.21478	19.9005	18.6307	0.03253	0.79594	0.73226	3,438.66
Demolition	—	—	—	—	4.99121	0.75581	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.06068	0.54522	0.51043	0.00089	0.02181	0.02006	94.2098
Demolition	—	—	—	—	0.13675	0.02071	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.01107	0.09950	0.09315	0.00016	0.00398	0.00366	15.5975
Demolition	—	—	—	—	0.02496	0.00378	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06184	0.05241	1.00547	0.00000	0.19606	0.04596	205.696
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.09326	6.95250	3.94253	0.04167	1.74797	0.53620	6,303.71
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00159	0.00179	0.02175	0.00000	0.00531	0.00124	5.23753
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00250	0.19983	0.10829	0.00114	0.04747	0.01459	172.554
Annual	—	—	—	—	—	—	—
Worker	0.00029	0.00033	0.00397	0.00000	0.00097	0.00023	0.86713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00046	0.03647	0.01976	0.00021	0.00866	0.00266	28.5683

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	3.64578	32.7450	30.3726	0.05106	1.61987	1.49028	5,551.71
Dust From Material Movement	—	—	—	—	5.66228	2.68618	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.04994	0.44856	0.41606	0.00070	0.02219	0.02041	76.0508
Dust From Material Movement	—	—	—	—	0.07757	0.03680	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00911	0.08186	0.07593	0.00013	0.00405	0.00373	12.5911
Dust From Material Movement	—	—	—	—	0.01416	0.00672	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.07215	0.06115	1.17305	0.00000	0.22874	0.05362	239.979
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—

Worker	0.00093	0.00104	0.01269	0.00000	0.00310	0.00073	3.05523
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00017	0.00019	0.00232	0.00000	0.00056	0.00013	0.50583
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	3.64578	32.7450	30.3726	0.05106	1.61987	1.49028	5,551.71
Dust From Material Movement	—	—	—	—	5.66228	2.68618	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.04994	0.44856	0.41606	0.00070	0.02219	0.02041	76.0508
Dust From Material Movement	—	—	—	—	0.07757	0.03680	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00911	0.08186	0.07593	0.00013	0.00405	0.00373	12.5911
Dust From Material Movement	—	—	—	—	0.01416	0.00672	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.07215	0.06115	1.17305	0.00000	0.22874	0.05362	239.979
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00093	0.00104	0.01269	0.00000	0.00310	0.00073	3.05523
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00017	0.00019	0.00232	0.00000	0.00056	0.00013	0.50583
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	3.24250	27.9664	28.3283	0.06201	1.26714	1.16577	6,738.58
Dust From Material Movement	—	—	—	—	2.67116	0.98013	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.17767	1.53240	1.55223	0.00340	0.06943	0.06388	369.237

Dust From Material Movement	—	—	—	—	0.14636	0.05371	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.03243	0.27966	0.28328	0.00062	0.01267	0.01166	61.1314
Dust From Material Movement	—	—	—	—	0.02671	0.00980	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.08245	0.06989	1.34063	0.00000	0.26142	0.06128	274.262
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.02243	1.67246	0.94840	0.01002	0.42048	0.12899	1,516.39
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00425	0.00477	0.05800	0.00000	0.01415	0.00331	13.9668
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00120	0.09614	0.05210	0.00055	0.02284	0.00702	83.0176
Annual	—	—	—	—	—	—	—
Worker	0.00078	0.00087	0.01058	0.00000	0.00258	0.00060	2.31236
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00022	0.01755	0.00951	0.00010	0.00417	0.00128	13.7445

3.3.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	3.24250	27.9664	28.3283	0.06201	1.26714	1.16577	6,738.58
Dust From Material Movement	—	—	—	—	2.67116	0.98013	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.17767	1.53240	1.55223	0.00340	0.06943	0.06388	369.237
Dust From Material Movement	—	—	—	—	0.14636	0.05371	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.03243	0.27966	0.28328	0.00062	0.01267	0.01166	61.1314
Dust From Material Movement	—	—	—	—	0.02671	0.00980	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.08245	0.06989	1.34063	0.00000	0.26142	0.06128	274.262
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.02243	1.67246	0.94840	0.01002	0.42048	0.12899	1,516.39
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00425	0.00477	0.05800	0.00000	0.01415	0.00331	13.9668
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00120	0.09614	0.05210	0.00055	0.02284	0.00702	83.0176

Annual	—	—	—	—	—	—	—
Worker	0.00078	0.00087	0.01058	0.00000	0.00258	0.00060	2.31236
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00022	0.01755	0.00951	0.00010	0.00417	0.00128	13.7445

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.29812	2.72728	3.76331	0.00685	0.09775	0.08993	707.448
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.05441	0.49773	0.68680	0.00125	0.01784	0.01641	117.126
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.13357	0.11322	2.17182	0.00000	0.42350	0.09927	444.304

Vendor	0.00598	0.30132	0.16392	0.00216	0.08664	0.02707	300.331
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.12500	0.12786	1.63610	0.00000	0.42350	0.09927	406.726
Vendor	0.00556	0.31617	0.16625	0.00216	0.08664	0.02707	299.833
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Worker	0.03370	0.03782	0.45971	0.00000	0.11217	0.02627	110.707
Vendor	0.00155	0.08472	0.04423	0.00058	0.02300	0.00720	80.4339
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00615	0.00690	0.08390	0.00000	0.02047	0.00479	18.3287
Vendor	0.00028	0.01546	0.00807	0.00011	0.00420	0.00131	13.3168
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.11196	10.1725	14.0369	0.02554	0.36460	0.33543	2,638.73
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.29812	2.72728	3.76331	0.00685	0.09775	0.08993	707.448
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—

Off-Road Equipment	0.05441	0.49773	0.68680	0.00125	0.01784	0.01641	117.126
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.13357	0.11322	2.17182	0.00000	0.42350	0.09927	444.304
Vendor	0.00598	0.30132	0.16392	0.00216	0.08664	0.02707	300.331
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.12500	0.12786	1.63610	0.00000	0.42350	0.09927	406.726
Vendor	0.00556	0.31617	0.16625	0.00216	0.08664	0.02707	299.833
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Worker	0.03370	0.03782	0.45971	0.00000	0.11217	0.02627	110.707
Vendor	0.00155	0.08472	0.04423	0.00058	0.02300	0.00720	80.4339
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00615	0.00690	0.08390	0.00000	0.02047	0.00479	18.3287
Vendor	0.00028	0.01546	0.00807	0.00011	0.00420	0.00131	13.3168
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2028)

3.5.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.29970	2.70337	3.92781	0.00715	0.09112	0.08383	738.555
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.05470	0.49336	0.71683	0.00130	0.01663	0.01530	122.276
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.12786	0.11179	2.01146	0.00000	0.42350	0.09927	435.812
Vendor	0.00598	0.28902	0.15874	0.00216	0.08664	0.02491	293.609
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.12072	0.11322	1.51253	0.00000	0.42350	0.09927	399.146
Vendor	0.00556	0.30170	0.16129	0.00216	0.08664	0.02491	293.192
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Worker	0.03358	0.03538	0.44896	0.00000	0.11708	0.02742	113.385
Vendor	0.00161	0.08438	0.04478	0.00061	0.02401	0.00691	82.0884
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—
Worker	0.00613	0.00646	0.08193	0.00000	0.02137	0.00500	18.7721
Vendor	0.00029	0.01540	0.00817	0.00011	0.00438	0.00126	13.5907
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.07097	9.66028	14.0357	0.02555	0.32561	0.29956	2,639.17
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.29970	2.70337	3.92781	0.00715	0.09112	0.08383	738.555
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.05470	0.49336	0.71683	0.00130	0.01663	0.01530	122.276
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.12786	0.11179	2.01146	0.00000	0.42350	0.09927	435.812
Vendor	0.00598	0.28902	0.15874	0.00216	0.08664	0.02491	293.609
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.12072	0.11322	1.51253	0.00000	0.42350	0.09927	399.146
Vendor	0.00556	0.30170	0.16129	0.00216	0.08664	0.02491	293.192
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—
Worker	0.03358	0.03538	0.44896	0.00000	0.11708	0.02742	113.385
Vendor	0.00161	0.08438	0.04478	0.00061	0.02401	0.00691	82.0884
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00613	0.00646	0.08193	0.00000	0.02137	0.00500	18.7721
Vendor	0.00029	0.01540	0.00817	0.00011	0.00438	0.00126	13.5907
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Paving (2027)

3.6.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.73744	6.94439	9.95313	0.01395	0.29813	0.27428	1,516.29
Paving	0.72443	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.04041	0.38051	0.54538	0.00076	0.01634	0.01503	83.0845
Paving	0.03969	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—

Off-Road Equipment	0.00737	0.06944	0.09953	0.00014	0.00298	0.00274	13.7556
Paving	0.00724	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06184	0.05241	1.00547	0.00000	0.19606	0.04596	205.696
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00319	0.00358	0.04350	0.00000	0.01061	0.00249	10.4751
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00058	0.00065	0.00794	0.00000	0.00194	0.00045	1.73427
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.73744	6.94439	9.95313	0.01395	0.29813	0.27428	1,516.29
Paving	0.72443	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.04041	0.38051	0.54538	0.00076	0.01634	0.01503	83.0845
Paving	0.03969	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00737	0.06944	0.09953	0.00014	0.00298	0.00274	13.7556
Paving	0.00724	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06184	0.05241	1.00547	0.00000	0.19606	0.04596	205.696
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00319	0.00358	0.04350	0.00000	0.01061	0.00249	10.4751
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00058	0.00065	0.00794	0.00000	0.00194	0.00045	1.73427
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Architectural Coating (2028)

3.7.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.14308	1.07752	1.49111	0.00230	0.02048	0.01884	178.634
Architectural Coatings	227.261	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.00784	0.05904	0.08170	0.00013	0.00112	0.00103	9.78814
Architectural Coatings	12.4526	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00143	0.01078	0.01491	0.00002	0.00020	0.00019	1.62054
Architectural Coatings	2.27261	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.02557	0.02236	0.40229	0.00000	0.08470	0.01985	87.1623
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00132	0.00139	0.01758	0.00000	0.00459	0.00107	4.44023
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00024	0.00025	0.00321	0.00000	0.00084	0.00020	0.73513
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.14308	1.07752	1.49111	0.00230	0.02048	0.01884	178.634
Architectural Coatings	48.4185	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.00784	0.05904	0.08170	0.00013	0.00112	0.00103	9.78814
Architectural Coatings	2.65307	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00143	0.01078	0.01491	0.00002	0.00020	0.00019	1.62054
Architectural Coatings	0.48418	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.02557	0.02236	0.40229	0.00000	0.08470	0.01985	87.1623

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00132	0.00139	0.01758	0.00000	0.00459	0.00107	4.44023
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00024	0.00025	0.00321	0.00000	0.00084	0.00020	0.73513
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Infrastructure Improvements (2027)

3.8.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.34265	3.33427	4.89464	0.00757	0.10015	0.09214	775.446
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.01878	0.18270	0.26820	0.00041	0.00549	0.00505	42.4902
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.00343	0.03334	0.04895	0.00008	0.00100	0.00092	7.03473
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.05153	0.04368	0.83789	0.00000	0.16339	0.03830	171.414
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00266	0.00298	0.03625	0.00000	0.00884	0.00207	8.72922
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00049	0.00054	0.00662	0.00000	0.00161	0.00038	1.44522
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.34265	3.33427	4.89464	0.00757	0.10015	0.09214	775.446
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.01878	0.18270	0.26820	0.00041	0.00549	0.00505	42.4902
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—

Off-Road Equipment	0.00343	0.03334	0.04895	0.00008	0.00100	0.00092	7.03473
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.05153	0.04368	0.83789	0.00000	0.16339	0.03830	171.414
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	0.00266	0.00298	0.03625	0.00000	0.00884	0.00207	8.72922
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—
Worker	0.00049	0.00054	0.00662	0.00000	0.00161	0.00038	1.44522
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—

Single Family Housing	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
Annual	—	—	—	—	—	—	—
Single Family Housing	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.78271	2.31988	22.5415	0.05782	5.26365	1.36209	6,044.50
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.60052	2.48803	19.0589	0.05419	5.26368	1.36212	5,663.59
Annual	—	—	—	—	—	—	—
Single Family Housing	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.46501	0.45566	3.56001	0.00988	0.93841	0.24294	937.608

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	653.368
City Park	—	—	—	—	—	—	0.00000

Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	653.368
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	653.368
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	653.368
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	108.173
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	108.173

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	653.368
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000

Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	653.368
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	653.368
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	653.368
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	108.173
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	108.173

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014

Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
Annual	—	—	—	—	—	—	—
Single Family Housing	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	149.835
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	149.835

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014

City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.04160	0.71102	0.30256	0.00454	0.05749	0.05749	905.014
Annual	—	—	—	—	—	—	—
Single Family Housing	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	149.835
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00759	0.12976	0.05522	0.00083	0.01049	0.01049	149.835

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hearths	0.08735	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Consumer Products	15.3077	—	—	—	—	—	—
Architectural Coatings	1.24526	—	—	—	—	—	—
Landscape Equipment	0.44502	0.04835	5.11498	0.00022	0.00239	0.00180	13.6999
Total	17.0853	1.54129	5.75027	0.00975	0.12310	0.12251	1,910.68
Daily, Winter (Max)	—	—	—	—	—	—	—
Hearths	0.08735	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Consumer Products	15.3077	—	—	—	—	—	—
Architectural Coatings	1.24526	—	—	—	—	—	—

Total	16.6403	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Annual	—	—	—	—	—	—	—
Hearths	0.00109	0.01866	0.00794	0.00012	0.00151	0.00151	21.5115
Consumer Products	2.79366	—	—	—	—	—	—
Architectural Coatings	0.22726	—	—	—	—	—	—
Landscape Equipment	0.05563	0.00604	0.63937	0.00003	0.00030	0.00023	1.55354
Total	3.07764	0.02471	0.64731	0.00015	0.00181	0.00173	23.0650

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Hearths	0.08735	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Consumer Products	15.3077	—	—	—	—	—	—
Architectural Coatings	1.24526	—	—	—	—	—	—
Landscape Equipment	0.44502	0.04835	5.11498	0.00022	0.00239	0.00180	13.6999
Total	17.0853	1.54129	5.75027	0.00975	0.12310	0.12251	1,910.68
Daily, Winter (Max)	—	—	—	—	—	—	—
Hearths	0.08735	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Consumer Products	15.3077	—	—	—	—	—	—
Architectural Coatings	1.24526	—	—	—	—	—	—
Total	16.6403	1.49294	0.63529	0.00953	0.12071	0.12071	1,896.99
Annual	—	—	—	—	—	—	—
Hearths	0.00109	0.01866	0.00794	0.00012	0.00151	0.00151	21.5115
Consumer Products	2.79366	—	—	—	—	—	—
Architectural Coatings	0.22726	—	—	—	—	—	—
Landscape Equipment	0.05563	0.00604	0.63937	0.00003	0.00030	0.00023	1.55354
Total	3.07764	0.02471	0.64731	0.00015	0.00181	0.00173	23.0650

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	97.1105
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	97.1105
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	97.1105
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	97.1105
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	16.0778
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	16.0778

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	97.1105
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	97.1105
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	97.1105
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	97.1105
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	16.0778
City Park	—	—	—	—	—	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	16.0778

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	184.427
City Park	—	—	—	—	—	—	0.07297
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	184.500
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	184.427
City Park	—	—	—	—	—	—	0.07297
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	184.500
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	30.5341
City Park	—	—	—	—	—	—	0.01208
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	30.5461

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	184.427
City Park	—	—	—	—	—	—	0.07297
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	184.500
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	184.427
City Park	—	—	—	—	—	—	0.07297
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	184.500
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	30.5341
City Park	—	—	—	—	—	—	0.01208
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000
Total	—	—	—	—	—	—	30.5461

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	5.11606
Total	—	—	—	—	—	—	5.11606
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	5.11606
Total	—	—	—	—	—	—	5.11606
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	0.84702
Total	—	—	—	—	—	—	0.84702

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	5.11606
Total	—	—	—	—	—	—	5.11606
Daily, Winter (Max)	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	5.11606
Total	—	—	—	—	—	—	5.11606
Annual	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	0.84702
Total	—	—	—	—	—	—	0.84702

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/1/2027	7/14/2027	5.00000	10.00000	—
Site Preparation	Site Preparation	7/14/2027	7/20/2027	5.00000	5.00000	—
Grading	Grading	7/20/2027	8/16/2027	5.00000	20.0000	—
Building Construction	Building Construction	8/17/2027	5/22/2028	5.00000	200.000	—
Paving	Paving	8/17/2027	9/13/2027	5.00000	20.0000	—
Architectural Coating	Architectural Coating	5/15/2028	6/9/2028	5.00000	20.0000	—

Infrastructure Improvements	Trenching	8/17/2027	9/13/2027	5.00000	20.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Site Preparation	Crawler Tractors	Diesel	Average	4.00000	8.00000	87.0000	0.43000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Grading	Crawler Tractors	Diesel	Average	2.00000	8.00000	87.0000	0.43000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000

Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	8.00000	37.0000	0.48000
Infrastructure Improvements	Dumpers/Tenders	Diesel	Average	1.000000	8.00000	16.0000	0.38000
Infrastructure Improvements	Excavators	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Infrastructure Improvements	Plate Compactors	Diesel	Average	1.000000	8.00000	8.00000	0.43000
Infrastructure Improvements	Skid Steer Loaders	Diesel	Average	1.000000	8.00000	71.0000	0.37000
Infrastructure Improvements	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Site Preparation	Crawler Tractors	Diesel	Average	4.00000	8.00000	87.0000	0.43000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0.00000	8.00000	84.0000	0.37000
Grading	Crawler Tractors	Diesel	Average	2.00000	8.00000	87.0000	0.43000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000

Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	8.00000	37.0000	0.48000
Infrastructure Improvements	Dumpers/Tenders	Diesel	Average	1.000000	8.00000	16.0000	0.38000
Infrastructure Improvements	Excavators	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Infrastructure Improvements	Plate Compactors	Diesel	Average	1.000000	8.00000	8.00000	0.43000
Infrastructure Improvements	Skid Steer Loaders	Diesel	Average	1.000000	8.00000	71.0000	0.37000
Infrastructure Improvements	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2000	HHDT,MHDT
Demolition	Hauling	90.0000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT

Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	21.6500	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	32.4000	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	9.62100	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	6.48000	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Infrastructure Improvements	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Infrastructure Improvements	Vendor	—	10.2000	HHDT,MHDT
Infrastructure Improvements	Hauling	0.00000	20.0000	HHDT
Infrastructure Improvements	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2000	HHDT,MHDT
Demolition	Hauling	90.0000	20.0000	HHDT

Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	21.6500	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	32.4000	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	9.62100	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	6.48000	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Infrastructure Improvements	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Infrastructure Improvements	Vendor	—	10.2000	HHDT,MHDT
Infrastructure Improvements	Hauling	0.00000	20.0000	HHDT
Infrastructure Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	1,446,526	482,175	0.00000	0.00000	15,995.2

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	3,600.00	0.00000
Site Preparation	—	—	17.5000	0.00000	0.00000
Grading	3,457.00	—	80.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	7.11174

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Single Family Housing	0.99174	0%
Paving	City Park	0.00000	0%
Paving	Other Asphalt Surfaces	5.29000	100%

Paving	Other Non-Asphalt Surfaces	0.59000	0%
Paving	Other Asphalt Surfaces	0.24000	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	346.196	0.03300	0.00400
2028	0.00000	346.196	0.03300	0.00400

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	818.100	812.700	758.700	295,228	7,368.14	7,319.50	6,833.16	2,658,938
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	818.100	812.700	758.700	295,228	7,368.14	7,319.50	6,833.16	2,658,938
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	90	90
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	0	0
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0

Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1,446,526	482,175	0.00000	0.00000	15,995.2

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	684,866	346.196	0.0330	0.0040	2,816,074
City Park	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)

Single Family Housing	684,866	346.196	0.0330	0.0040	2,816,074
City Park	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,751,306	8,279,013
City Park	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,751,306	8,279,013
City Park	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Single Family Housing	97.8102	0.00000
City Park	0.03870	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	97.8102	0.00000
City Park	0.03870	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	18.9600	annual days of extreme heat
Extreme Precipitation	5.10000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	76.9384
AQ-PM	93.1674
AQ-DPM	17.5482
Drinking Water	96.3657
Lead Risk Housing	56.8368
Pesticides	58.0690
Toxic Releases	61.5779
Traffic	6.27500
Effect Indicators	—
CleanUp Sites	46.0806
Groundwater	22.1152
Haz Waste Facilities/Generators	40.9265
Impaired Water Bodies	12.4528
Solid Waste	64.9714

Sensitive Population	—
Asthma	41.7498
Cardio-vascular	68.9806
Low Birth Weights	37.2338
Socioeconomic Factor Indicators	—
Education	69.1977
Housing	39.2015
Linguistic	60.6171
Poverty	58.9070
Unemployment	30.8824

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.96791993
Employed	62.92826896
Median HI	60.82381625
Education	—
Bachelor's or higher	43.64172976
High school enrollment	100
Preschool enrollment	56.08879764
Transportation	—
Auto Access	49.51879892
Active commuting	3.37482356
Social	—
2-parent households	27.61452586
Voting	55.43436417

Neighborhood	—
Alcohol availability	57.3206724
Park access	14.83382523
Retail density	20.1334531
Supermarket access	18.27280893
Tree canopy	20.67239831
Housing	—
Homeownership	81.7400231
Housing habitability	65.26369819
Low-inc homeowner severe housing cost burden	62.59463621
Low-inc renter severe housing cost burden	33.82522777
Uncrowded housing	54.63877839
Health Outcomes	—
Insured adults	69.70358014
Arthritis	20.9
Asthma ER Admissions	53.9
High Blood Pressure	33.3
Cancer (excluding skin)	27.6
Asthma	55.1
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	39.3
Life Expectancy at Birth	38.8
Cognitively Disabled	44.8
Physically Disabled	18.7
Heart Attack ER Admissions	22.9
Mental Health Not Good	57.3
Chronic Kidney Disease	35.4

Obesity	48.4
Pedestrian Injuries	70.7
Physical Health Not Good	47.6
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	50.7
Current Smoker	63.1
No Leisure Time for Physical Activity	55.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	48.0
English Speaking	74.3
Foreign-born	33.9
Outdoor Workers	27.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.6
Traffic Density	14.6
Traffic Access	23.0
Other Indices	—
Hardship	40.6
Other Decision Support	—
2016 Voting	66.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	64.0000

Healthy Places Index Score for Project Location (b)	48.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Adjusted lot acreage to match architectural plan set
Construction: Construction Phases	Adjusted construction schedule to adhere to the start date and occupancy year provided by the client. Sewer trenching was assumed to take approximately 20 working days, based on an estimated trench length of 3,970 feet under typical construction production rates.
Construction: Off-Road Equipment	Assumed all construction will be utilized 8 hours per work day as provided by client. Replaced Tractors/Loaders/Backhoes with Crawler Tractors in the Site Preparation and Grading Phases.
Operations: Vehicle Data	Reduced city park land use trip rate to zero, as the project's basins (City Park) is ancillary to the Residential use and would not independently generate trips. Single Family Housing weekday, Saturday, and Sunday trip rates were revised to match ITE 12th Edition trip rates for 210- single family detached housing.
Operations: Hearths	For a conservative analysis, 100% of the units were assumed to include a gas-powered fireplace. Wood stoves were removed in accordance with SCAQMD Rule 445.

Operations: Refrigerants	Removed refrigeration equipment from City Parks land use as the park is representative of the Project's WQ basin and easement, and would not include typical equipment utilized with a City Park.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	29.2208	17.8300
Building Area	sq. ft	175,500	714,334
Landscape Area	sq. ft	1,054,157	421,800
Population	people	298.000	335.000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	7/29/2027	7/14/2027
Demolition	Demolition	Work Days per Phase	20.0000	10.00000
Site Preparation	Site Preparation	Start Date	7/30/2027	7/14/2027
Site Preparation	Site Preparation	End Date	8/13/2027	7/20/2027
Site Preparation	Site Preparation	Work Days per Phase	10.00000	5.00000
Grading	Grading	Start Date	8/14/2027	7/20/2027
Grading	Grading	End Date	10/2/2027	8/16/2027
Grading	Grading	Work Days per Phase	35.0000	20.0000
Building Construction	Building Construction	Start Date	10/3/2027	8/17/2027
Building Construction	Building Construction	End Date	3/4/2029	5/22/2028
Building Construction	Building Construction	Work Days per Phase	370.000	200.000
Paving	Paving	Start Date	3/5/2029	8/17/2027
Paving	Paving	End Date	4/2/2029	9/13/2027

Architectural Coating	Architectural Coating	Start Date	4/3/2029	5/15/2028
Architectural Coating	Architectural Coating	End Date	5/1/2029	6/9/2028

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Site Preparation	Tractors/Loaders/Backhoes	Number per Day	4.00000	0.00000
Grading	Tractors/Loaders/Backhoes	Number per Day	2.00000	0.00000
Building Construction	Cranes	Hours Per Day	7.00000	8.00000
Building Construction	Tractors/Loaders/Backhoes	Hours Per Day	7.00000	8.00000
Architectural Coating	Air Compressors	Hours Per Day	6.00000	8.00000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Single Family Housing	Weekday Trip Rate	size/day	9.44000	9.09000
Single Family Housing	Saturday Trip Rate	size/day	9.54000	9.03000
Single Family Housing	Sunday Trip Rate	size/day	8.55000	8.43000
City Park	Weekday Trip Rate	size/day	0.78000	0.00000
City Park	Saturday Trip Rate	size/day	1.96000	0.00000
City Park	Sunday Trip Rate	size/day	2.19000	0.00000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value

Single Family Housing	Wood Fireplaces	—	5	0
Single Family Housing	Gas Fireplaces	—	77	90
Single Family Housing	No Fireplaces	—	9	0
Single Family Housing	Wood Mass	lb/year	1,019	0
Single Family Housing	Catalytic Wood Stoves	—	5	0
Single Family Housing	Non-Catalytic Wood Stoves	—	5	0

ATTACHMENT A.2 – OPERATIONAL LST CALEEMOD OUTPUT SHEETS

25-093 Nerio Farms Chino Op LST Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	25-093 Nerio Farms Chino Op LST
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60000
Precipitation (days)	18.8000
Location	34.044717260719196, -117.71414611062656
County	San Bernardino-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5213
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.43

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	90.0000	Dwelling Unit	17.8300	714,334	421,800	—	335.000	—
City Park	0.45000	Acre	0.45000	0.00000	0.00000	0.00000	—	—

Other Asphalt Surfaces	5.29000	Acre	5.29000	0.00000	0.00000	—	—	—
Other Non-Asphalt Surfaces	0.59000	Acre	0.59000	0.00000	0.00000	—	—	—
Other Asphalt Surfaces	0.20000	Acre	0.20000	0.00000	0.00000	—	—	Offsite ROW Improvements

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Unmit.	4.57219	28.5944	5.44423	1.54208
Daily, Winter (Max)	—	—	—	—
Unmit.	4.69199	19.9967	5.44187	1.54031
Average Daily (Max)	—	—	—	—
Unmit.	3.34313	23.3564	5.20935	1.39814
Annual (Max)	—	—	—	—
Unmit.	0.61012	4.26254	0.95071	0.25516
Exceeds (Daily Max)	—	—	—	—
Threshold	—	—	—	—
Unmit.	Yes	Yes	Yes	Yes
Exceeds (Average Daily)	—	—	—	—
Threshold	—	—	—	—

Unmit.	Yes	Yes	Yes	Yes
Exceeds (Annual)	—	—	—	—
Threshold	—	—	—	—
Unmit.	—	—	—	—

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Mobile	2.31988	22.5415	5.26365	1.36209
Area	1.54129	5.75027	0.12310	0.12251
Energy	0.71102	0.30256	0.05749	0.05749
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	4.57219	28.5944	5.44423	1.54208
Daily, Winter (Max)	—	—	—	—
Mobile	2.48803	19.0589	5.26368	1.36212
Area	1.49294	0.63529	0.12071	0.12071
Energy	0.71102	0.30256	0.05749	0.05749
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	4.69199	19.9967	5.44187	1.54031
Average Daily	—	—	—	—
Mobile	2.49674	19.5069	5.14196	1.33115
Area	0.13537	3.54692	0.00991	0.00950
Energy	0.71102	0.30256	0.05749	0.05749

Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	3.34313	23.3564	5.20935	1.39814
Annual	—	—	—	—
Mobile	0.45566	3.56001	0.93841	0.24294
Area	0.02471	0.64731	0.00181	0.00173
Energy	0.12976	0.05522	0.01049	0.01049
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	0.61012	4.26254	0.95071	0.25516

2.5. Operations Emissions by Sector, Mitigated

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

Sector	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Mobile	2.31988	22.5415	5.26365	1.36209
Area	1.54129	5.75027	0.12310	0.12251
Energy	0.71102	0.30256	0.05749	0.05749
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	4.57219	28.5944	5.44423	1.54208
Daily, Winter (Max)	—	—	—	—
Mobile	2.48803	19.0589	5.26368	1.36212
Area	1.49294	0.63529	0.12071	0.12071
Energy	0.71102	0.30256	0.05749	0.05749

Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	4.69199	19.9967	5.44187	1.54031
Average Daily	—	—	—	—
Mobile	2.49674	19.5069	5.14196	1.33115
Area	0.13537	3.54692	0.00991	0.00950
Energy	0.71102	0.30256	0.05749	0.05749
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	3.34313	23.3564	5.20935	1.39814
Annual	—	—	—	—
Mobile	0.45566	3.56001	0.93841	0.24294
Area	0.02471	0.64731	0.00181	0.00173
Energy	0.12976	0.05522	0.01049	0.01049
Water	—	—	—	—
Waste	—	—	—	—
Refrig.	—	—	—	—
Total	0.61012	4.26254	0.95071	0.25516

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T

Daily, Summer (Max)	—	—	—	—
Single Family Housing	2.31988	22.5415	5.26365	1.36209
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	2.31988	22.5415	5.26365	1.36209
Daily, Winter (Max)	—	—	—	—
Single Family Housing	2.48803	19.0589	5.26368	1.36212
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	2.48803	19.0589	5.26368	1.36212
Annual	—	—	—	—
Single Family Housing	0.45566	3.56001	0.93841	0.24294
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.45566	3.56001	0.93841	0.24294

4.1.2. Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	2.31988	22.5415	5.26365	1.36209
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	2.31988	22.5415	5.26365	1.36209

Daily, Winter (Max)	—	—	—	—
Single Family Housing	2.48803	19.0589	5.26368	1.36212
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	2.48803	19.0589	5.26368	1.36212
Annual	—	—	—	—
Single Family Housing	0.45566	3.56001	0.93841	0.24294
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.45566	3.56001	0.93841	0.24294

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—

Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—

Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	0.71102	0.30256	0.05749	0.05749
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.71102	0.30256	0.05749	0.05749
Daily, Winter (Max)	—	—	—	—
Single Family Housing	0.71102	0.30256	0.05749	0.05749
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.71102	0.30256	0.05749	0.05749
Annual	—	—	—	—
Single Family Housing	0.12976	0.05522	0.01049	0.01049
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.12976	0.05522	0.01049	0.01049

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T

Daily, Summer (Max)	—	—	—	—
Single Family Housing	0.71102	0.30256	0.05749	0.05749
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.71102	0.30256	0.05749	0.05749
Daily, Winter (Max)	—	—	—	—
Single Family Housing	0.71102	0.30256	0.05749	0.05749
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.71102	0.30256	0.05749	0.05749
Annual	—	—	—	—
Single Family Housing	0.12976	0.05522	0.01049	0.01049
City Park	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000
Total	0.12976	0.05522	0.01049	0.01049

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Hearths	1.49294	0.63529	0.12071	0.12071
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—

Landscape Equipment	0.04835	5.11498	0.00239	0.00180
Total	1.54129	5.75027	0.12310	0.12251
Daily, Winter (Max)	—	—	—	—
Hearths	1.49294	0.63529	0.12071	0.12071
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—
Total	1.49294	0.63529	0.12071	0.12071
Annual	—	—	—	—
Hearths	0.01866	0.00794	0.00151	0.00151
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—
Landscape Equipment	0.00604	0.63937	0.00030	0.00023
Total	0.02471	0.64731	0.00181	0.00173

4.3.2. Mitigated

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

Source	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Hearths	1.49294	0.63529	0.12071	0.12071
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—
Landscape Equipment	0.04835	5.11498	0.00239	0.00180
Total	1.54129	5.75027	0.12310	0.12251
Daily, Winter (Max)	—	—	—	—
Hearths	1.49294	0.63529	0.12071	0.12071
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—
Total	1.49294	0.63529	0.12071	0.12071

Annual	—	—	—	—
Hearths	0.01866	0.00794	0.00151	0.00151
Consumer Products	—	—	—	—
Architectural Coatings	—	—	—	—
Landscape Equipment	0.00604	0.63937	0.00030	0.00023
Total	0.02471	0.64731	0.00181	0.00173

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—

Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.4.2. Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.5.2. Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—

Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
City Park	—	—	—	—
Other Asphalt Surfaces	—	—	—	—
Other Non-Asphalt Surfaces	—	—	—	—
Total	—	—	—	—

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—

Total	—	—	—	—

4.6.2. Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Single Family Housing	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Single Family Housing	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Single Family Housing	—	—	—	—
Total	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—

Annual	—	—	—	—
Total	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—

Subtotal	—	—	—	—
—	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—
Subtotal	—	—	—	—
—	—	—	—	—
Annual	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—
Subtotal	—	—	—	—
—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Total	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Total	—	—	—	—
Annual	—	—	—	—
Total	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—
Subtotal	—	—	—	—
—	—	—	—	—
Daily, Winter (Max)	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—
Subtotal	—	—	—	—

—	—	—	—	—
Annual	—	—	—	—
Avoided	—	—	—	—
Subtotal	—	—	—	—
Sequestered	—	—	—	—
Subtotal	—	—	—	—
Removed	—	—	—	—
Subtotal	—	—	—	—
—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	818.100	812.700	758.700	295,228	7,368.14	7,319.50	6,833.16	2,658,938
City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	818.100	812.700	758.700	295,228	7,368.14	7,319.50	6,833.16	2,658,938

City Park	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	90	90
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	0	0
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0

City Park	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1,446,526	482,175	0.00000	0.00000	15,890.7

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	684,866	346.196	0.0330	0.0040	2,816,074
City Park	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	684,866	346.196	0.0330	0.0040	2,816,074
City Park	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	346.196	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,751,306	8,279,013
City Park	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,751,306	8,279,013
City Park	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	97.8102	0.00000
City Park	0.03870	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	97.8102	0.00000
City Park	0.03870	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	18.9600	annual days of extreme heat
Extreme Precipitation	5.10000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	76.9384
AQ-PM	93.1674
AQ-DPM	17.5482
Drinking Water	96.3657
Lead Risk Housing	56.8368
Pesticides	58.0690
Toxic Releases	61.5779
Traffic	6.27500
Effect Indicators	—
CleanUp Sites	46.0806
Groundwater	22.1152

Haz Waste Facilities/Generators	40.9265
Impaired Water Bodies	12.4528
Solid Waste	64.9714
Sensitive Population	—
Asthma	41.7498
Cardio-vascular	68.9806
Low Birth Weights	37.2338
Socioeconomic Factor Indicators	—
Education	69.1977
Housing	39.2015
Linguistic	60.6171
Poverty	58.9070
Unemployment	30.8824

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.96791993
Employed	62.92826896
Median HI	60.82381625
Education	—
Bachelor's or higher	43.64172976
High school enrollment	100
Preschool enrollment	56.08879764
Transportation	—
Auto Access	49.51879892
Active commuting	3.37482356

Social	—
2-parent households	27.61452586
Voting	55.43436417
Neighborhood	—
Alcohol availability	57.3206724
Park access	14.83382523
Retail density	20.1334531
Supermarket access	18.27280893
Tree canopy	20.67239831
Housing	—
Homeownership	81.7400231
Housing habitability	65.26369819
Low-inc homeowner severe housing cost burden	62.59463621
Low-inc renter severe housing cost burden	33.82522777
Uncrowded housing	54.63877839
Health Outcomes	—
Insured adults	69.70358014
Arthritis	20.9
Asthma ER Admissions	53.9
High Blood Pressure	33.3
Cancer (excluding skin)	27.6
Asthma	55.1
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	39.3
Life Expectancy at Birth	38.8
Cognitively Disabled	44.8
Physically Disabled	18.7

Heart Attack ER Admissions	22.9
Mental Health Not Good	57.3
Chronic Kidney Disease	35.4
Obesity	48.4
Pedestrian Injuries	70.7
Physical Health Not Good	47.6
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	50.7
Current Smoker	63.1
No Leisure Time for Physical Activity	55.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	48.0
English Speaking	74.3
Foreign-born	33.9
Outdoor Workers	27.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.6
Traffic Density	14.6
Traffic Access	23.0
Other Indices	—
Hardship	40.6
Other Decision Support	—
2016 Voting	66.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	64.0000
Healthy Places Index Score for Project Location (b)	48.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Adjusted lot acreage to match architectural plan set
Construction: Construction Phases	Adjusted construction schedule to adhere to start date and occupancy year provided by client.
Construction: Off-Road Equipment	Assumed all construction will be utilized 8 hours per work day as provided by client. Replaced Tractors/Loaders/Backhoes with Crawler Tractors in the Site Preparation and Grading Phases.
Operations: Vehicle Data	Reduced city park land use trip rate to zero, as the project's basins (City Park) is ancillary to the Residential use and would not independently generate trips. Single Family Housing weekday, Saturday, and Sunday trip rates were revised to match ITE 12th Edition trip rates for 210- single family detached housing.

Operations: Hearths	For a conservative analysis, 100% of the units were assumed to include a gas-powered fireplace. Wood stoves were removed in accordance with SCAQMD Rule 445.
Operations: Refrigerants	Removed refrigeration equipment from City Parks land use as the park is representative of the Project's WQ basin and easement, and would not include typical equipment utilized with a City Park.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	29.2208	17.8300
Building Area	sq. ft	175,500	714,334
Landscape Area	sq. ft	1,054,157	421,800
Population	people	298.000	335.000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Single Family Housing	Weekday Trip Rate	size/day	9.44000	9.09000
Single Family Housing	Saturday Trip Rate	size/day	9.54000	9.03000
Single Family Housing	Sunday Trip Rate	size/day	8.55000	8.43000
Single Family Housing	Non-Res H-W Trip Length	miles	0.00000	0.50000
Single Family Housing	Non-Res W-O Trip Length	miles	0.00000	0.50000
Single Family Housing	Non-Res O-O Trip Length	miles	0.00000	0.50000
City Park	Weekday Trip Rate	size/day	0.78000	0.00000
City Park	Saturday Trip Rate	size/day	1.96000	0.00000
City Park	Sunday Trip Rate	size/day	2.19000	0.00000
City Park	Non-Res H-W Trip Length	miles	20.3265	0.50000

City Park	Non-Res W-O Trip Length	miles	16.7970	0.50000
City Park	Non-Res O-O Trip Length	miles	6.86670	0.50000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Single Family Housing	Wood Fireplaces	—	5	0
Single Family Housing	Gas Fireplaces	—	77	90
Single Family Housing	No Fireplaces	—	9	0
Single Family Housing	Wood Mass	lb/year	1,019	0
Single Family Housing	Catalytic Wood Stoves	—	5	0
Single Family Housing	Non-Catalytic Wood Stoves	—	5	0

ATTACHMENT B – DETAILED CALCULATION SHEETS

Unmitigated Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
			2027			
Demolition	**2.4**	**26.9**	**23.6**	**0.1**	***7.7***	**2.1**
Off-Road Equipment	2.217285554	18.69051361	18.63020063	0.025831002	0.728529072	0.721256728
Demolition					4.960121006	0.750881052
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.005473261	0	0.196064	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0.000335955	0.024029911	0.004655965	0.000167998	0.007996554	0.003195604
Site Preparation	**3.7**	**32.8**	**31.5**	**0.1**	**7.5**	**4.2**
Off-Road Equipment	3.443782747	32.74402691	30.37263455	0.051062305	1.419871141	1.149261552
Dust From Material Movement					5.627130241	0.691180521
Onsite truck	0	0	0	0	0	0
Worker	0.092763696	0.078621355	1.508209892	0	0.2940096	0.068936567
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Grading	**3.3**	**29.7**	**30.6**	**0.1**	**4.6**	**2.3**
Off-Road Equipment	3.243500978	29.76638995	28.37832774	0.050208801	1.397134119	1.131457616
Dust From Material Movement					2.671156064	0.328126251
Onsite truck	0	0	0	0	0	0
Worker	0.058258896	0.049382653	1.134553107	0	0.2611818	0.061275168
Vendor	0	0	0	0	0	0
Hauling	0.012163174	0.870605276	0.168703344	0.006078587	0.289685304	0.121305252
Building Construction	**1.3**	**10.6**	**16.4**	**0.0**	**0.9**	**0.5**
Off-Road Equipment	1.070970589	9.660278403	14.03574022	0.025549797	0.325611541	0.299562615
Onsite truck	0	0	0	0	0	0
Worker	0.127859293	0.111787595	2.011462403	0	0.423498457	0.09926736
Vendor	0.00598141	0.289016649	0.158740688	0.002163489	0.086643383	0.024906079
Hauling	0	0	0	0	0	0
Infrastructure Improvements (Trenching)	**0.4**	**3.4**	**5.7**	**0.0**	**0.3**	**0.1**
Off-Road Equipment	0.342654811	3.342689	4.696438	0.007557	0.1001301	0.09218811
Worker	0.015153	0.012509	0.253063	0.000053	0.0131307	0.003072
Paving	**1.5**	**7.0**	**11.0**	**0.0**	**0.5**	**0.3**
Off-Road Equipment	0.737438953	6.944392299	9.953134475	0.013952646	0.298125774	0.274275712
Paving	0.71919					
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.005473261	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2027)	***3.7***	***32.8***	***31.5***	***0.1***	***7.7***	***4.2***
			2028			
Building Construction	**1.2**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Off-Road Equipment	1.070970589	9.660278403	14.03574022	0.025549797	0.325611541	0.299562615
Onsite truck	0	0	0	0	0	0
Worker	0.127859293	0.111787595	2.011462403	0	0.423498457	0.09926736
Vendor	0.00598141	0.289016649	0.158740688	0.002163489	0.086643383	0.024906079
Hauling	0	0	0	0	0	0
Architectural Coating	**227.4**	**1.1**	**1.9**	**0.0**	**0.1**	**0.0**
Off-Road Equipment	0.143080666	1.077521114	1.491109697	0.002301389	0.020475214	0.018837197
Architectural Coating	227.2363514					
Onsite truck	0	0	0	0	0	0
Worker	0.025571859	0.022357519	0.402292481	0	0.08469969	0.019853472
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2028)	**227.4**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Maximum Daily Emissions	**227.4**	**32.8**	**31.5**	**0.1**	**7.7**	**4.2**
SCAQMD Thresholds	*75*	100	550	150	150	*55*
Threshold Exceeded?	**Yes**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter

Source: CalEEMod Output Sheets.

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase
Demolition	Demolition	7/1/2027	7/14/2027	5	10
Site Preparation	Site Preparation	7/14/2027	7/20/2027	5	5
Grading	Grading	7/20/2027	8/16/2027	5	20
Building Construction	Building Construction	8/17/2027	5/22/2028	5	200
Paving	Paving	8/17/2027	9/13/2027	5	20
Architectural Coating	Architectural Coating	5/15/2028	6/9/2028	5	20
Infrastructure Improvements	Trenching	8/17/2027	9/13/2027	5	20

2027	Building and Paving	Days Overlapped:	20.0
2028	Building and Architectural Coating	Days Overlapped:	5.0

Adjusted Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
2027						
Demolition	**2.4**	**27.2**	**23.6**	**0.1**	**7.8**	**2.1**
Off-Road Equipment	2.214782562	19.9005354	18.6307009	0.032551037	0.7955959	0.729264726
Demolition					6.9615104	0.7384119
Onsite truck	0	0	0		0	0
Worker	0.061839664	0.052414903	1.00547326		0.196064	0.045957111
Vendor	0	0	0		0	0
Hauling	0.026163852	7.219336482	3.940282624	0.068368584	0.0924431	0.258185292
Site Preparation	**3.7**	**32.8**	**31.5**	**0.1**	**7.5**	**4.2**
Off-Road Equipment	3.645782704	32.74496204	30.37236348	0.051062364	1.619873143	1.491283294
Dust From Material Movement					5.6622824	2.686180701
Onsite truck	0	0	0		0	0
Worker	0.072146275	0.061159071	1.173052135		0.2287413	0.053616652
Vendor	0	0	0		0	0
Hauling	0	0	0		0	0
Grading	**3.3**	**29.8**	**30.6**	**0.1**	**4.6**	**2.3**
Off-Road Equipment	3.247503913	27.96438045	28.38282822	0.052008018	1.726713511	1.165756148
Dust From Material Movement					2.671156067	0.980126221
Onsite truck	0	0	0		0	0
Worker	0.082452367	0.069886535	1.340431014		0.261416	0.061276191
Vendor	0	0	0		0	0
Hauling	0.022712495	1.735432585	0.94839668	0.010023311	0.426376584	0.130666841
	7.1	62.6	62.2	0.1	12.1	6.6
Paving	**3.0**	**14.0**	**21.9**	**0.0**	**1.0**	**0.6**
Paving	1.5	7.0	11.0	0.0	0.5	0.3
Off-Road Equipment	0.737438953	6.944392299	9.953134475	0.013952646	0.298125774	0.274275712
Paving	0.71919					
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.005473261	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Building Construction	**1.3**	**10.6**	**16.4**	**0.0**	**0.9**	**0.5**
Off-Road Equipment	1.191592859	10.17536464	14.65586897	0.025584095	0.384489381	0.355934459
Onsite truck	0	0	0		0	0
Worker	0.133573675	0.113216193	2.171822224		0.423498457	0.09926736
Vendor	0.006046467	0.314720215	0.16391601	0.002163585	0.088727015	0.027639705
Hauling	0	0	0		0	0
Infrastructure Improvements (Trenching)	**0.4**	**3.4**	**5.7**	**0.0**	**0.3**	**0.1**
Off-Road Equipment	0.34265407	3.33426894	4.8946385	0.00756764	0.10015017	0.09213811
Worker	0.01513505	0.01167909	0.8278943	0.0000009	0.1631864	0.0392956
Paving, Infrastructure Improvements (Trenching) and Building Construction	**4.7**	**28.0**	**44.0**	**0.1**	**2.1**	**1.2**
Maximum Daily Emissions (2027)	***7.1***	***62.6***	***62.2***	***0.1***	***12.1***	***6.6***
2028						
Building Construction	**1.2**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Off-Road Equipment	1.070970589	9.660278403	14.03574023	0.025549797	0.3256611541	0.299562615
Onsite truck	0	0	0	0	0	0
Worker	0.127859293	0.111787595	2.011462405	0	0.423498457	0.09926736
Vendor	0.006046467	0.314720215	0.163916008	0.002163585	0.088727015	0.027639705
Hauling	0	0	0	0	0	0
Architectural Coating and Building Construction	**228.6**	**11.2**	**18.1**	**0.0**	**0.9**	**0.5**
Architectural Coating	**227.4**	**1.1**	**1.9**	**0.0**	**0.1**	**0.0**
Off-Road Equipment	0.143080666	1.077521114	1.491109697	0.002301389	0.020475214	0.018837197
Architectural Coatings	227.2363514					
Onsite truck	0	0	0	0	0	0
Worker	0.025571859	0.022357519	0.402292481	0	0.084699691	0.019853472
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2028)	***228.6***	***11.2***	***18.1***	***0.0***	***0.9***	***0.5***
Maximum Daily Emissions	***228.6***	***62.6***	***62.2***	***0.1***	***12.1***	***6.6***
SCAQMD Thresholds	*75*	100	*550*	150	150	*55*
Threshold Exceeded?	**Yes**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter

Source: CalEEMod Output Sheets.

Adjustment Factors by Year	EMFAC2007	Weighted_ROG_VMT	Weighted_NOx_VMT	Weighted_PM10_VMT	Weighted_PM2.5_VMT
2027	**MHDT**	1.010876543	1.044475736	1.024048848	1.021061898
2027	**HHDT**	1.012452886	1.03765143	1.014016617	1.013033151
2028	**MHDT**	1.019090314	1.073037697	1.039633494	1.03529131
2028	**HHDT**	1.018389033	1.054390295	1.020998023	1.019521134

Maximum Daily Emissions (2027)	7.1	62.6	62.2	0.1	12.1	6.6
Maximum Daily Emissions (2028)	228.6	11.2	18.1	0.0	0.9	0.5
Maximum Daily Emissions	228.6	62.6	62.2	0.1	12.1	6.6

2.2. Construction Emissions by Year used in report

Maximum Daily Emissions (2027)	7.1	62.5	62.2	0.1	15.2	6.6
Maximum Daily Emissions (2028)	228.6	11.2	18.1	0.0	0.9	0.5
Maximum Daily Emissions	228.6	62.5	62.2	0.1	15.2	6.6

Unmitigated Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
			2027			
Demolition	**2.4**	**26.9**	**23.6**	**0.1**	***7.7***	**2.1**
Off-Road Equipment	2.217785554	18.69051361	18.63070004	0.032631002	0.728529078	0.671256726
Demolition					4.950150964	0.750581152
Onsite truck	0	0	0	0	0	0
Worker	0.067185052	0.052614992	1.005475261	0	0.196064	0.054585111
Vendor	0	0	0	0	0	0
Hauling	0.093335551	8.223497913	3.945535663	0.061667368	1.247955565	0.336199624
Site Preparation	**3.7**	**32.8**	**31.5**	**0.1**	**7.5**	**4.2**
Off-Road Equipment	3.435785474	32.54448362	31.47564188	0.051063532	1.418871134	1.302578134
Dust From Material Movement					5.663382474	0.868180781
Onsite truck	0	0	0	0	0	0
Worker	0.072146271	0.061155073	1.173052131	0	0.228741401	0.05361663
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Grading	**3.3**	**29.7**	**30.6**	**0.1**	**4.6**	**2.3**
Off-Road Equipment	3.230350274	29.84616362	28.78980374	0.050060853	1.397135114	1.285256252
Dust From Material Movement					3.001135694	0.450170354
Onsite truck	0	0	0	0	0	0
Worker	0.068243881	0.060686853	1.108963104	0	0.216314181	0.050726108
Vendor	0	0	0	0	0	0
Hauling	0.023450192	2.062409	0.968850966	0.016903319	0.320888584	0.088588295
Building Construction	**1.3**	**10.6**	**16.4**	**0.0**	**0.9**	**0.5**
Off-Road Equipment	1.111906815	10.07227063	11.40768849	0.020304927	0.564999875	0.519543656
Onsite truck	0	0	0	0	0	0
Worker	0.135271037	0.112711615	2.121852261	0	0.428108485	0.100426726
Vendor	0.005598141	0.289016649	0.158740684	0.002163489	0.086643383	0.024906079
Hauling	0	0	0	0	0	0
Infrastructure Improvements (Trenching)	**0.4**	**3.4**	**5.7**	**0.0**	**0.3**	**0.1**
Off-Road Equipment	0.342654068	3.334268935	4.894638514	0.007567625	0.100150115	0.092138106
Worker	0.051533054	0.043679086	0.837894385	0	0.16338675	0.038297593
Paving	**1.5**	**7.0**	**11.0**	**0.0**	**0.5**	**0.3**
Off-Road Equipment	0.737438953	6.944392299	9.953134475	0.013952646	0.298125774	0.274275712
Paving	0.71919					
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.00547326	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2026)	***3.7***	***32.8***	***31.5***	***0.1***	***7.7***	***4.2***
			2028			
Building Construction	**1.2**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Off-Road Equipment	1.070970589	9.660278403	14.03574023	0.025549797	0.32561154	0.299562615
Onsite truck	0	0	0	0	0	0
Worker	0.127859293	0.111787595	2.011462405	0	0.423498457	0.09926736
Vendor	0.00598141	0.289016649	0.158740684	0.002163489	0.086643383	0.024906079
Hauling	0	0	0	0	0	0
Architectural Coating	**48.6**	**1.1**	**1.9**	**0.0**	**0.1**	**0.0**
Off-Road Equipment	0.143080666	1.077521114	1.491109697	0.002301389	0.020475214	0.018837197
Architectural Coatings	48.39425152					
Onsite truck	0	0	0	0	0	0
Worker	0.025571859	0.022357519	0.402292481	0	0.08469969	0.019853472
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2027)	**48.6**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Maximum Daily Emissions	**48.6**	**32.8**	**31.5**	**0.1**	***7.7***	**4.2**
SCAQMD Thresholds	*75*	100	*550*	150	150	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter 10 microns in diameter, $PM_{2.5}$ = particulate matter 2.5 microns in diameter

Source: CalEEMod Output Sheets.

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase
Demolition	Demolition	7/1/2027	7/14/2027	5	10
Site Preparation	Site Preparation	7/14/2027	7/20/2027	5	5
Grading	Grading	7/20/2027	8/16/2027	5	20
Building Construction	Building Construction	8/17/2027	5/22/2028	5	200
Paving	Paving	8/17/2027	9/13/2027	5	20
Architectural Coating	Architectural Coating	5/15/2028	6/9/2028	5	20
Infrastructure Improvements	Trenching	8/17/2027	9/13/2027	5	20

2027	Building and Paving	Days Overlapped:	20.0
2028	Building and Architectural Coating	Days Overlapped:	5.0

Adjusted Construction Emissions

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
2027						
Demolition	**2.4**	**27.2**	**23.6**	**0.1**	**7.8**	**2.1**
Off-Road Equipment	2.314787563	26.9205353	23.6470009	0.09253107	7.7959599	2.15254776
Demolition					0.4547104	0.1454182
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.00547326	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0.061839664	0.052414903	0.00547326	0.00486794	0.1960641	0.045957111
Site Preparation	**3.7**	**32.8**	**31.5**	**0.1**	**7.5**	**4.2**
Off-Road Equipment	3.645782704	32.74496204	30.3726348	0.091063361	1.619873119	1.490283294
Dust From Material Movement					5.662282	2.686190721
Onsite truck	0	0	0	0	0	0
Worker	0.073186272	0.06115071	1.13065218	0	0.2287918	0.053616654
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Grading	**3.3**	**29.8**	**30.6**	**0.1**	**4.6**	**2.3**
Off-Road Equipment	3.242503915	29.13663845	28.2102822	0.08209891	1.39719719	1.285296506
Dust From Material Movement					2.671156091	0.980126221
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.00547326	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0.027712493	1.175443583	0.94819668	0.01002331	0.4263765	0.130666841
	7.1	62.1	62	0.1	12.1	6.8
Paving	**3.0**	**14.0**	**21.9**	**0.0**	**1.0**	**0.6**
Paving	1.5	7.0	11.0	0.0	0.5	0.3
Off-Road Equipment	0.737438953	6.944392299	9.953134475	0.013952646	0.298125774	0.274275712
Paving	0.71919					
Onsite truck	0	0	0	0	0	0
Worker	0.061839664	0.052414903	1.00547326	0	0.1960641	0.045957111
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Building Construction	**1.3**	**10.6**	**16.4**	**0.0**	**0.9**	**0.5**
Off-Road Equipment	1.171934854	10.37534	16.0556282	0.022534393	0.3649268	0.349834304
Onsite truck	0	0	0	0	0	0
Worker	0.133573675	0.113216193	2.17182224	0	0.4234984	0.09926736
Vendor	0.006046567	0.314720211	0.1630169	0.002163952	0.0887709	0.027619704
Hauling	0	0	0	0	0	0
Infrastructure Improvements (Trenching)	**0.4**	**3.4**	**5.7**	**0.0**	**0.3**	**0.1**
Off-Road Equipment	0.342654068	3.334268935	4.894638514	0.007567625	0.100150115	0.092138106
Worker	0.051533054	0.043679086	0.837894385	0	0.16338675	0.038297593
Paving, Infrastructure Improvements (Trenching) and Building Construction	**4.7**	**28.0**	**44.0**	**0.1**	**2.1**	**1.2**
Maximum Daily Emissions (2027)	***4.7***	***32.8***	***44.0***	***0.1***	***7.8***	***4.2***
2028						
Building Construction	**1.2**	**10.1**	**16.2**	**0.0**	**0.8**	**0.4**
Off-Road Equipment	1.070970589	9.660278403	14.03574023	0.025549797	0.325611541	0.299562615
Onsite truck	0	0	0	0	0	0
Worker	0.127859293	0.111787595	2.011462405	0	0.423498457	0.09926736
Vendor	0.006046567	0.314720211	0.1630169	0.002163952	0.0887709	0.027619704
Hauling	0	0	0	0	0	0
Architectural Coating and Building Construction	**49.8**	**11.2**	**18.1**	**0.0**	**0.9**	**0.5**
Architectural Coating	**48.6**	**1.1**	**1.9**	**0.0**	**0.1**	**0.0**
Off-Road Equipment	0.143080666	1.077521114	1.491109697	0.002301389	0.020475214	0.018837197
Architectural Coatings	48.39425152					
Onsite truck	0	0	0	0	0	0
Worker	0.025571859	0.022357519	0.402292481	0	0.084699691	0.019853472
Vendor	0	0	0	0	0	0
Hauling	0	0	0	0	0	0
Maximum Daily Emissions (2028)	***49.8***	***11.2***	***18.1***	***0.0***	***0.9***	***0.5***
Maximum Daily Emissions	***49.8***	***32.8***	***44.0***	***0.1***	***7.8***	***4.2***
SCAQMD Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases, NOx = nitrogen oxides, CO = carbon monoxide, SOx = sulfur oxides, PM_{10} = particulate matter 10

Source: CalEEMod Output Sheets.

Adjustment Factors by Year	EMFAC2007	Weighted_ROG_VMT	Weighted_NOx_VMT	Weighted_PM10_VMT	Weighted_PM2.5_VMT
2027	**MHDT**	1.010876543	1.044475736	1.024048848	1.021061898
2027	**HHDT**	1.012452886	1.03765143	1.014016617	1.013033151
2028	**MHDT**	1.019090314	1.073037697	1.039633494	1.03529131
2028	**HHDT**	1.018389033	1.054390295	1.020998023	1.019521134

Maximum Daily Emissions (2027)	4.7	32.8	44.0	0.1	7.8	4.2
Maximum Daily Emissions (2028)	49.8	11.2	18.1	0.0	0.9	0.5
Maximum Daily Emissions	49.8	32.8	44.0	0.1	7.8	4.2

2.2. Construction Emissions by Year used in report

Maximum Daily Emissions (2027)	7.1	62.5	62.2	0.1	15.2	6.6
Maximum Daily Emissions (2028)	49.8	11.2	18.1	0.0	0.9	0.5
Maximum Daily Emissions	49.8	62.5	62.2	0.1	15.2	6.6

Operational Emissions

Operational Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
Winter						
Mobile	2.600520174	2.488033129	19.05886372	0.054188332	5.263681986	1.362118209
Area	16.64006084	1.492941181	0.635294113	0.009529407	0.120705876	0.120705876
Energy	0.04160196	0.711015311	0.302559711	0.004538393	0.057486341	0.057486341
Total Winter Proposed Project Operational Emissions	***19.28***	***4.69***	***20.00***	***0.07***	***5.44***	***1.54***
Summer						
Mobile	2.782714931	2.319877027	22.54153142	0.057822176	5.263648806	1.362086464
Area	17.08507954	1.541293508	5.750271967	0.009750886	0.123096837	0.122507417
Energy	0.04160196	0.711015311	0.302559711	0.004538393	0.057486341	0.057486341
Total Summer Proposed Project Operational Emissions	***19.91***	***4.57***	***28.59***	***0.07***	***5.44***	***1.54***
Maximum						
Mobile	2.8	2.5	22.5	0.1	5.3	1.4
Area	17.1	1.5	5.8	0.0	0.1	0.1
Energy	0.0	0.7	0.3	0.0	0.1	0.1
Maximum Operational Emissions	**19.9**	**4.7**	**28.6**	**0.1**	**5.4**	**1.5**
SCAQMD Significance Thresholds	55.0	55.0	550.0	150.0	150.0	55.0
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

**adjustment factors only implemented for construction, Project is not a truck heavy use.

Construction Equipment Modeled in CalEEMod and Acres Disturbed Per Day

Activity	Equipment Type	Equipment Quantity	Operating Hours per Day	Acres Disturbed per Piece of Equipment per Day	Acres Disturbed per Day
				Total Acres Disturbed Per Day	
Demolition	Concrete/Industrial Saws	1	8	0	0
	Excavators	3	8	0	0
	Rubber Tired Dozers	2	8	0.5	1
				Total Acres Disturbed Per Day	1
Site Preparation	Rubber Tired Dozers	3	8	0.5	1.5
	Tractors/Loaders/Backhoe	0	8	0	0
	Crawler Tractors	4	8	0.5	2
				Total Acres Disturbed Per Day	3.5
Grading	Excavators	2	8	0	0
	Graders	1	8	0.5	0.5
	Rubber Tired Dozers	1	8	0.5	0.5
	Scrapers	2	8	1	2
	Tractors/Loaders/Backhoe	0	8	0	0
	Crawler Tractors	2	8	0.5	1
				Total Acres Disturbed Per Day	4

Source: CalEEMod Output Sheets.

Construction Equipment Fuel Usage (Off-Road)

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Demolition	Concrete/Industrial Saws	1	8	33	0.73	10	1927.2	0.04204644	81
	Excavators	3	8	36	0.38	10	3283.2	0.05144523	169
	Rubber Tired Dozers	2	8	367	0.4	10	23488	0.05079664	1,193
Site Preparation	Rubber Tired Dozers	3	8	367	0.4	5	17616	0.05079664	895
	Tractors/Loaders/Backhoes	0	8	84	0.37	5	0	0.05298396	-
	Crawler Tractors	4	8	87	0.43	5	5985.6	0.05097346	305
Grading	Excavators	2	8	36	0.38	20	4377.6	0.05144523	225
	Graders	1	8	148	0.41	20	9708.8	0.05073945	493
	Rubber Tired Dozers	1	8	367	0.4	20	23488	0.05079664	1,193
	Scrapers	2	8	423	0.48	20	64972.8	0.05058102	3,286
	Tractors/Loaders/Backhoes	0	8	84	0.37	20	0	0.05298396	-
	Crawler Tractors	2	8	87	0.43	20	11971.2	0.05097346	610
Building Construction	Cranes	1	8	367	0.29	200	170288	0.05071774	8,637
	Forklifts	3	8	82	0.2	200	78720	0.05291564	4,166
	Generator Sets	1	8	14	0.74	200	16576	0.08023699	1,330
	Tractors/Loaders/Backhoes	3	8	84	0.37	200	149184	0.05298396	7,904
	Welders	1	8	46	0.45	200	33120	0.03206616	1,062
Trenching	Dumpers/Tenders	1	8	16	0.38	20	972.8	0.54158883	527
	Excavators	1	8	36	0.38	20	2188.8	0.05144523	113
	Plate Compactors	1	8	8	0.43	20	550.4	0.05129226	28
	Skid Steer Loaders	1	8	71	0.37	20	4203.2	0.05548087	233
	Tractors/Loaders/Backhoes	1	8	84	0.37	20	4972.8	0.05298396	263
Paving	Pavers	2	8	81	0.42	20	10886.4	0.05163103	562
	Paving Equipment	2	8	89	0.36	20	10252.8	0.05116527	525
	Rollers	2	8	36	0.38	20	4377.6	0.05224824	229
Architectual Coating	Air Compressors	1	8	37	0.48	20	2841.6	0.03014291	86
								Total	**34,115**

Source: Fuel Calculation Sheets (see Attachment C)

Model Output: Off-Road Web Query (v1.1.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2027
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: Off-Road Web Query Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Yea	Horsepower	Fuel	Fuel Consumpti	Horsepower_Hours_hhpy	
San Bernardino (SC)	2027	Bore/Drill Rigs	Aggregate	Aggregate	Diesel	321453.4876	6296539.36	0.05105241
San Bernardino (SC)	2027	Compactor	Aggregate	Aggregate	Diesel	12212.71224	239445.2888	0.05100419
San Bernardino (SC)	2027	Concrete Mixer	Aggregate	Aggregate	Diesel	1132.151774	22031.5345	0.05138779
San Bernardino (SC)	2027	Concrete Pump	Aggregate	Aggregate	Diesel	11521.40396	226422.5974	0.05088451
San Bernardino (SC)	2027	Cranes	Aggregate	Aggregate	Diesel	280485.2618	5530319.076	0.05071774
San Bernardino (SC)	2027	Crawler Tractors	Aggregate	Aggregate	Diesel	827186.9248	16227797.5	0.05097346
San Bernardino (SC)	2027	Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	43683.01072	861391.9207	0.05071212
San Bernardino (SC)	2027	Excavators	Aggregate	Aggregate	Diesel	2602360.865	50585074.48	0.05144523
San Bernardino (SC)	2027	Graders	Aggregate	Aggregate	Diesel	376179.5109	7413945.484	0.05073945
San Bernardino (SC)	2027	Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	1848.54	43964.25	0.04204644
San Bernardino (SC)	2027	Signal Boards	Aggregate	Aggregate	Diesel	1345.95	18096.7	0.07437544
San Bernardino (SC)	2027	Off-Highway Tractors	Aggregate	Aggregate	Diesel	468494.0442	9094925.384	0.05151159
San Bernardino (SC)	2027	Off-Highway Trucks	Aggregate	Aggregate	Diesel	1121925.432	22170147.19	0.05060523
San Bernardino (SC)	2027	Other Construction Equipment	Aggregate	Aggregate	Diesel	536540.3141	10460454.54	0.05129226
San Bernardino (SC)	2027	Other Material Handling Equipment	Aggregate	Aggregate	Diesel	165081.9996	3230465.392	0.05110162
San Bernardino (SC)	2027	Pavers	Aggregate	Aggregate	Diesel	167621.0865	3246518.132	0.05163103
San Bernardino (SC)	2027	Paving Equipment	Aggregate	Aggregate	Diesel	185107.3462	3617832.121	0.05116527
San Bernardino (SC)	2027	Rollers	Aggregate	Aggregate	Diesel	440030.6896	8421922.938	0.05224824
San Bernardino (SC)	2027	Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	546655.6039	10507635.63	0.05202461
San Bernardino (SC)	2027	Rubber Tired Dozers	Aggregate	Aggregate	Diesel	103655.4807	2040597.224	0.05079664
San Bernardino (SC)	2027	Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1911787.883	37605298.89	0.05083826
San Bernardino (SC)	2027	Scrapers	Aggregate	Aggregate	Diesel	1054560.631	20848941.58	0.05058102
San Bernardino (SC)	2027	Skid Steer Loaders	Aggregate	Aggregate	Diesel	892987.7039	16095417.57	0.05548087
San Bernardino (SC)	2027	Spreader Tractor Trailer	Aggregate	Aggregate	Diesel	1390.733151	27335.90053	0.0508757
San Bernardino (SC)	2027	Spreader Truck	Aggregate	Aggregate	Diesel	8594.462617	167788.1014	0.05122212
San Bernardino (SC)	2027	Surfacing Equipment	Aggregate	Aggregate	Diesel	88582.16902	1743805.805	0.05079818
San Bernardino (SC)	2027	Tank Truck	Aggregate	Aggregate	Diesel	18711.39588	369030.0927	0.05070425
San Bernardino (SC)	2027	Tanker Truck Trailer	Aggregate	Aggregate	Diesel	1423.250093	27297.86288	0.05213778
San Bernardino (SC)	2027	Telescopic Handler	Aggregate	Aggregate	Diesel	37324.36789	714318.9911	0.05225168
San Bernardino (SC)	2027	Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	2534805.548	47840997.16	0.05298396
San Bernardino (SC)	2027	Trenchers	Aggregate	Aggregate	Diesel	88476.39951	1675549.562	0.05280441
San Bernardino (SC)	2027	Vacuum Truck	Aggregate	Aggregate	Diesel	28580.86582	559817.035	0.05105394
San Bernardino (SC)	2027	Water Truck	Aggregate	Aggregate	Diesel	85489.71337	1685873.586	0.05070944
San Bernardino (SC)	2027	Aerial Lifts	Aggregate	Aggregate	Diesel	75041.07815	1357731.719	0.05526944
San Bernardino (SC)	2027	Boom	Aggregate	Aggregate	Diesel	74307.16758	1333257.645	0.05573354
San Bernardino (SC)	2027	Forklifts	Aggregate	Aggregate	Diesel	332827.3564	6289772.367	0.05291564
San Bernardino (SC)	2027	Other General Industrial Equipment	Aggregate	Aggregate	Diesel	101401.315	1954251.849	0.05188754
San Bernardino (SC)	2027	Other Truck	Aggregate	Aggregate	Diesel	59912.36214	1178457.268	0.05083966
San Bernardino (SC)	2027	Railcars or Track Cars	Aggregate	Aggregate	Diesel	4601.669848	90666.94144	0.05075356
San Bernardino (SC)	2027	Yard Goat	Aggregate	Aggregate	Diesel	159777.1201	3153075.193	0.05067343
San Bernardino (SC)	2027	Air Compressors	Aggregate	Aggregate	Diesel	33384.62607	1107545.05	0.03014291
San Bernardino (SC)	2027	Generator Sets	Aggregate	Aggregate	Diesel	159561.6414	1988629.5	0.08023699
San Bernardino (SC)	2027	Pressure Washers	Aggregate	Aggregate	Diesel	822.3158383	23579	0.03487492
San Bernardino (SC)	2027	Pumps	Aggregate	Aggregate	Diesel	88025.96336	1163995.95	0.07562394
San Bernardino (SC)	2027	Welders	Aggregate	Aggregate	Diesel	174115.5778	5429886	0.03206616
San Bernardino (SC)	2027	Construction and Mining - Other Construction Eq	Aggregate	Aggregate	Diesel	536540.3141	10460454.54	0.05129226
San Bernardino (SC)	2027	Construction and Mining - Misc - Dumpers/Tende	Aggregate	Aggregate	Gasoline	3131.25	5781.6	0.54158883

5.2. Off-Road Equipment

5.2.1 Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tie	Number per	Hours Per	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1	8	33	0.73
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0	8	84	0.37
Site Preparation	Crawler Tractors	Diesel	Average	4	8	87	0.43
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0	8	84	0.37
Grading	Crawler Tractors	Diesel	Average	2	8	87	0.43
Building Constructio	Cranes	Diesel	Average	1	8	367	0.29
Building Constructio	Forklifts	Diesel	Average	3	8	82	0.2
Building Constructio	Generator Sets	Diesel	Average	1	8	14	0.74
Building Constructio	Tractors/Loaders/Backhoes	Diesel	Average	3	8	84	0.37
Building Constructio	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectural Coatin	Air Compressors	Diesel	Average	1	8	37	0.48
Infrastructure Impro	Dumpers/Tenders	Diesel	Average	1	8	16	0.38
Infrastructure Impro	Excavators	Diesel	Average	1	8	36	0.38
Infrastructure Impro	Plate Compactors	Diesel	Average	1	8	8	0.43
Infrastructure Impro	Skid Steer Loaders	Diesel	Average	1	8	71	0.37
Infrastructure Impro	Tractors/Loaders/Backhoes	Diesel	Average	1	8	84	0.37

5. Activity Data

5.1 Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per We	Work Days per Phase			
Demolition	Demolition	7/1/2027	7/14/2027	5	10	344	11.466667	months
Site Preparation	Site Preparation	7/14/2027	7/20/2027	5	5		0.9555556	years
Grading	Grading	7/20/2027	8/16/2027	5	20			
Building Construction	Building Construction	8/17/2027	5/22/2028	5	200			
Paving	Paving	8/17/2027	9/13/2027	5	20			
Architectural Coating	Architectural Coating	5/15/2028	6/9/2028	5	20			

Localized Construction Emission Estimates

Construction Activity	Maximum Daily Localized Emissions (pounds/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
2027				
Demolition	19.9	18.6	5.8	1.5
Demo Thresholds (1 acre)	**148.5**	**431.5**	**98.0**	**62.0**
Threshold Exceeded?	**No**	**No**	**No**	**No**
Site Preparation	32.7	30.4	7.3	4.2
Site Prep Threshold (3.5 acre)	**220.0**	**1712.5**	**11.0**	**7.0**
Threshold Exceeded?	**No**	**No**	**No**	**No**
Grading	28.0	28.3	3.9	2.1
Grading Threshold (4 acre)	**236.7**	**1872.7**	**12.7**	**7.7**
Threshold Exceeded?	**No**	**No**	**No**	**No**

Operational Activity	Maximum Daily Localized Emissions (pounds/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Mobile	2.5	22.5	5.3	1.4
Area	1.5	5.8	0.1	0.1
Energy	0.7	0.3	0.1	0.1
Total	4.7	28.6	5.4	1.5
SCAQMD Significance Thresholds	270	2,193	12	3
Threshold Exceeded?	No	No	No	No

2. Emissions Summary

2.5 Operations Emissions by Sector, Mitigated

Sector	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)				
Mobile	2.319877	22.54153	5.263649	1.362086
Area	1.541294	5.750272	0.123097	0.122507
Energy	0.711015	0.30256	0.057486	0.057486
Water				
Waste				
Refrig.				
Total	4.572186	28.59436	5.444232	1.54208
Daily, Winter (Max)				
Mobile	2.488033	19.05886	5.263682	1.362118
Area	1.492941	0.635294	0.120706	0.120706
Energy	0.711015	0.30256	0.057486	0.057486
Water				
Waste				
Refrig.				
Total	4.69199	19.99672	5.441874	1.54031
Average Daily				
Mobile	2.496742	19.5069	5.141962	1.331152
Area	0.135374	3.546923	0.009905	0.009501
Energy	0.711015	0.30256	0.057486	0.057486
Water				
Waste				
Refrig.				
Total	3.343131	23.35638	5.209354	1.39814
Annual				
Mobile	0.455655	3.560009	0.938408	0.242935
Area	0.024706	0.647313	0.001808	0.001734
Energy	0.12976	0.055217	0.010491	0.010491
Water				
Waste				
Refrig.				
Total	0.610121	4.262539	0.950707	0.255161

Construction On-Road Fuel Consumption

Construction Source	Total Trips	VMT	Fuel Rate (Miles/Gallons)	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Haul Trucks	807.1	16142.5	6.3	2,582.7	-
Vendor Trucks	3,848.4	76968.0	7.6	10,069.2	-
Worker Vehicles	15,594.2	288492.7	29.7	-	9,703.1
			Total	**12,652.0**	**9,703.1**

Source: CalEEMod Output Sheets (see Attachment B)

		Demo trips	demo VMT			Duration(days)	
5.3.1 Unmitigated					D	10	
Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix	SP	5	
Demolition	Worker	15	18.5	LDA,LDT1,LDT2	GR	20	
Demolition	Vendor		10.2	HHDT,MHDT	BC	200	
Demolition	Hauling	90	20	HHDT	PV	20	
Demolition	Onsite truck			HHDT	C	20	
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2	Trenching	20	
Site Preparation	Vendor		10.2	HHDT,MHDT		Weighted Vendor	
Site Preparation	Hauling	0	20	HHDT	MHDT	1.818885282	0.49429
Site Preparation	Onsite truck			HHDT	HHDT	1.860939153	0.50571
Grading	Worker	20	18.5	LDA,LDT1,LDT2		Weighted Worker	
Grading	Vendor		10.2	HHDT,MHDT	LDA	49.54271019	0.66185
Grading	Hauling	21.65	20	HHDT	LDT1	3.741189465	0.04998
Grading	Onsite truck			HHDT	LDT2	21.57099098	0.28817
Building Construction	Worker	32.4	18.5	LDA,LDT1,LDT2		74.85489063	
Building Construction	Vendor	9.621	10.2	HHDT,MHDT			
Building Construction	Hauling	0	20	HHDT		Hauling Rate	
Building Construction	Onsite truck			HHDT	HHDT	6.25	
Paving	Worker	15	18.5	LDA,LDT1,LDT2			
Paving	Vendor		10.2	HHDT,MHDT			
Paving	Hauling	0	20	HHDT			
Paving	Onsite truck			HHDT			
Architectural Coating	Worker	6.48	18.5	LDA,LDT1,LDT2			
Architectural Coating	Vendor		10.2	HHDT,MHDT			
Architectural Coating	Hauling	0	20	HHDT			
Architectural Coating	Onsite truck			HHDT			
Infrastructure Improvements	Worker	12.5	18.5	LDA,LDT1,LDT2			
Infrastructure Improvements	Vendor		10.2	HHDT,MHDT			
Infrastructure Improvements	Hauling	0	20	HHDT			
Infrastructure Improvements	Onsite truck			HHDT			

HAULING TRIPS

	CalEEMod Daily Trucks	CY/per truck	CY	Total Trucks	Miles	Truck Miles			
Demo	90	16	3000	188	20.0	7500			
Grad	22	16	3457	216	20.0	8642.5	mpg	gal fuel	
				404		16142.5	6.3	2,582.75	

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area
Region: San Bernardino (SC) 100%
Calendar Year: 2027 100%
Season: Annual 100%
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consumption, kWh/day for Energy Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	Fuel Rate
San Bernardino (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	671004.9398	73.98162813	9.07
San Bernardino (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	1861290.669	297.8003661	6.25
						Weighted Vendor		7.6439

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC) 100%
Calendar Year: 2027 100%
Season: Annual 100%
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consumption, kWh/day for Energy Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	
San Bernardino (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	19787637.94	626.1101219	31.60
San Bernardino (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	1338397.254	51.51343959	25.98
San Bernardino (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	8538774.779	327.3681394	26.08
							Average MGP From Vehicle Splits	29.7321

Construction Fuel Consumption Summary

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	12,652.0	9,703.1
Off-Road Construction Equipment	34,115.0	-
Total	**46,767.0**	**9,703.1**
Countywide	32,633,908.5	487,632,515.4
Percentage Increase	**0.14%**	**0.00%**

Diesel	32633908.48
Gasoline	13931951.48

Model Output: Off-Road Web Query (v1.1.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2027, 2028
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: Off-Road Web Query Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Yea	Horsepow	Fuel	Fuel Consumption	Total Activity hpy	Total Population	Horsepower Hours hhpy
San Bernardino (SC)	2027	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	321453.4876	96062.94529	96.00510165	6296539.36
San Bernardino (SC)	2027	Construction and Mining - Bucket	Aggregate	Aggregate	Diesel	7504.759421	2897.117249	4.056667506	145353.0533
San Bernardino (SC)	2027	Construction and Mining - Compactor	Aggregate	Aggregate	Diesel	12212.71224	4717.35441	6.650565769	239445.2888
San Bernardino (SC)	2027	Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	1132.151774	689.9080283	1.130546682	22031.5345
San Bernardino (SC)	2027	Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	11521.40396	3953.628588	4.921455516	226422.5974
San Bernardino (SC)	2027	Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	5546.984989	2731.615492	11.70883729	107250.452
San Bernardino (SC)	2027	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	280485.2618	66045.34076	256.773157	5530319.076
San Bernardino (SC)	2027	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	827186.9248	250399.1841	401.9907906	16227797.5
San Bernardino (SC)	2027	Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	43683.01072	11775.20114	16.35967552	861391.9207
San Bernardino (SC)	2027	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	2602360.865	1130008.486	1516.629779	50585074.48
San Bernardino (SC)	2027	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	376179.5109	122445.2586	235.476123	7413945.484
San Bernardino (SC)	2027	Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	738.6283297	189.7056362	0.266010984	14613.59875
San Bernardino (SC)	2027	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	7580	1835.95	15.31186747	77697.55
San Bernardino (SC)	2027	Construction and Mining - Misc - Bore/Drill Ries	Aggregate	Aggregate	Gasoline	4859.7	660.65	14.10371332	57188.2
San Bernardino (SC)	2027	Construction and Mining - Misc - Bore/Drill Ries	Aggregate	Aggregate	Diesel	32.66	0	5.331455505	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Cement And Mortar Mixer	Aggregate	Aggregate	Gasoline	30338	0	1698.183364	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Cement And Mortar Mixer	Aggregate	Aggregate	Diesel	47.33	0	36.58375488	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	37842.95	3365.3	242.8559778	155690.75
San Bernardino (SC)	2027	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	1848.54	1332.25	3.40544758	43964.25
San Bernardino (SC)	2027	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	3978.5	1387	3.32	89038.1
San Bernardino (SC)	2027	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	187.2	0	1.353087488	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	3131.25	87.6	113.8383819	5781.6
San Bernardino (SC)	2027	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	3.82	0	1.545855164	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	27.3	0	2.423978786	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	6084.55	1109.6	5.072588672	139809.6
San Bernardino (SC)	2027	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	101.7	0	23.35760612	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	7.2	0	0.959097355	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Pavine Equioment	Aggregate	Aggregate	Gasoline	56757.1	1835.95	1215.621501	78938.55
San Bernardino (SC)	2027	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	12.2	0	2.374640061	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	20764	0	667.3889032	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	34.1	0	21.16723685	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	26039	3817.9	127.4012984	236133.1
San Bernardino (SC)	2027	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	208.5	0	64.04484219	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	28170.7	5526.1	13.34	464864
San Bernardino (SC)	2027	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	14917.55	4171.95	8.4676	283327.6
San Bernardino (SC)	2027	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	5	0	0.63021435	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	588.4	0	8.025534996	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1345.95	489.1	186.005748	18096.7
San Bernardino (SC)	2027	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	55627.7	14457.65	134.9504717	722291.2
San Bernardino (SC)	2027	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1400	0	247.548348	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Surfacine Equioment	Aggregate	Aggregate	Gasoline	25168	0	325.4071479	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	3502	0	195.1956861	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Gasoline	9570.3	3277.7	4.4608	206495.1
San Bernardino (SC)	2027	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Diesel	131	0	17.82172268	0
San Bernardino (SC)	2027	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Gasoline	47512.3	10413.45	120.7721556	405697.5
San Bernardino (SC)	2027	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Diesel	175.7	0	27.71906569	0
San Bernardino (SC)	2027	Construction and Mining - Nurse Rig Other	Aggregate	Aggregate	Diesel	69.12078968	45.74291734	0.066502746	1357.695127
San Bernardino (SC)	2027	Construction and Mining - Off-Highway Tractors	Aggregate	Aggregate	Diesel	468494.0442	200302.8792	183.4697019	9094925.384
San Bernardino (SC)	2027	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	1121925.432	168484.6655	163.516501	22170147.19
San Bernardino (SC)	2027	Construction and Mining - Other Construction Equipment	Aggregate	Aggregate	Diesel	536540.3141	176239.9075	330.3162078	10460454.54
San Bernardino (SC)	2027	Construction and Mining - Other Material Handling Equipm	Aggregate	Aggregate	Diesel	165081.9996	53160.06502	86.07443772	3230465.392
San Bernardino (SC)	2027	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	167621.0865	73860.61106	106.6242845	3246518.132
San Bernardino (SC)	2027	Construction and Mining - Pavine Equioment	Aggregate	Aggregate	Diesel	185107.3462	71402.06973	111.0911306	3617832.121
San Bernardino (SC)	2027	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	440030.6896	302046.8702	538.2902267	8421922.938
San Bernardino (SC)	2027	Construction and Mining - Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	546655.6039	330063.9007	614.0266897	10507635.63
San Bernardino (SC)	2027	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	103655.4807	24906.01924	33.45674311	2040597.224
San Bernardino (SC)	2027	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1911787.883	599436.4636	705.5724361	37605298.89
San Bernardino (SC)	2027	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	1054560.631	192300.1254	353.6387163	20848941.58
San Bernardino (SC)	2027	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	892987.7039	736618.9053	1312.121901	16095417.57
San Bernardino (SC)	2027	Construction and Mining - Spray Truck	Aggregate	Aggregate	Diesel	10994.20449	4933.455684	6.916470448	212814.7792
San Bernardino (SC)	2027	Construction and Mining - Spreader Tractor Trailer	Aggregate	Aggregate	Diesel	1390.73151	341.6187173	0.66502746	27335.90053
San Bernardino (SC)	2027	Construction and Mining - Spreader Truck	Aggregate	Aggregate	Diesel	8594.462617	2293.746012	2.99262357	167788.1014
San Bernardino (SC)	2027	Construction and Mining - Surfacing Equipment	Aggregate	Aggregate	Diesel	88582.16902	19067.29201	31.41472167	1743805.805
San Bernardino (SC)	2027	Construction and Mining - Tank Truck	Aggregate	Aggregate	Diesel	18711.39588	5215.18935	5.785738902	369030.0927
San Bernardino (SC)	2027	Construction and Mining - Tanker Truck Trailer	Aggregate	Aggregate	Diesel	1423.250093	724.4534174	0.864536698	27297.86288
San Bernardino (SC)	2027	Construction and Mining - Telescocic Handler	Aggregate	Aggregate	Diesel	37324.36789	21679.34943	47.48296064	714318.9911
San Bernardino (SC)	2027	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	2534805.548	1452613.048	2264.976518	47840997.16
San Bernardino (SC)	2027	Construction and Mining - Trenchers	Aggregate	Aggregate	Diesel	88476.39951	55731.23992	100.6431442	1675549.562
San Bernardino (SC)	2027	Construction and Mining - Vacuum Truck	Aggregate	Aggregate	Diesel	28580.86582	9820.390333	13.3005492	559817.0335
San Bernardino (SC)	2027	Construction and Mining - Water Truck	Aggregate	Aggregate	Diesel	85489.71337	17402.67421	22.55246401	1685873.586
San Bernardino (SC)	2027	Industrial - Aerial Lifts	Aggregate	Aggregate	Diesel	75041.07815	69014.32965	239.0938695	1357731.719
San Bernardino (SC)	2027	Industrial - Boom	Aggregate	Aggregate	Diesel	74307.16758	72614.30046	136.1934645	1333257.645
San Bernardino (SC)	2027	Industrial - Forklifts	Aggregate	Aggregate	Diesel	332827.3564	215554.8819	674.9954139	6289772.367
San Bernardino (SC)	2027	Industrial - Garbage Refuse	Aggregate	Aggregate	Diesel	3593.516546	543.2511143	0.62559698	70957.35565
San Bernardino (SC)	2027	Industrial - Garbage Transfer	Aggregate	Aggregate	Diesel	648.436228	116.5864873	0.125119396	12839.47233
San Bernardino (SC)	2027	Industrial - Misc - Aerial Lifts	Aggregate	Aggregate	Gasoline	57519.35	23038.8	104.4611419	1151940
San Bernardino (SC)	2027	Industrial - Misc - Aerial Lifts	Aggregate	Aggregate	Diesel	88.2	0	41.14254815	0
San Bernardino (SC)	2027	Industrial - Misc - Forklifts	Aggregate	Aggregate	Gasoline	1809367.05	888515.85	493.486098	58508160.45
San Bernardino (SC)	2027	Industrial - Misc - Other General Industrial Equipment	Aggregate	Aggregate	Gasoline	24734.07	9902.45	67.57792754	448037.5
San Bernardino (SC)	2027	Industrial - Misc - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	68.9	0	8.469368116	0
San Bernardino (SC)	2027	Industrial - Misc - Other Material Handling Equipment	Aggregate	Aggregate	Gasoline	13548.8	5044.3	13.08	270873.8
San Bernardino (SC)	2027	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Gasoline	98071.022	28170.7	90.162474	1415192.6
San Bernardino (SC)	2027	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	18.31	0	3.425208182	0
San Bernardino (SC)	2027	Industrial - Mower	Aggregate	Aggregate	Diesel	40104.79306	47376.54099	75.16769017	722297.0159
San Bernardino (SC)	2027	Industrial - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	101401.315	48808.43371	95.77658833	1954251.849
San Bernardino (SC)	2027	Industrial - Other Truck	Aggregate	Aggregate	Diesel	59912.36214	14579.35374	16.64302359	1178457.268
San Bernardino (SC)	2027	Industrial - Railcars or Track Cars	Aggregate	Aggregate	Diesel	4601.669848	1646.834842	2.096319201	90666.94144
San Bernardino (SC)	2027	Industrial - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	19656.33232	18794.20175	41.80864367	357438.1705
San Bernardino (SC)	2027	Industrial - Tow Tractor	Aggregate	Aggregate	Diesel	135.5099827	21.86885182	0.031278849	2677.459459
San Bernardino (SC)	2027	Industrial - Yard Goat	Aggregate	Aggregate	Diesel	159777.1201	59483.9934	38.91542599	3153075.193
San Bernardino (SC)	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Gasoline	1189381.095	34558.2	11944.91827	2255783.95
San Bernardino (SC)	2027	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Diesel	33384.62607	29933.65	43.30771192	1107545.05
San Bernardino (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Gasoline	1996234.314	73390.55	78232.10598	3071372.8
San Bernardino (SC)	2027	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	159561.6414	60261.5	551.5665964	1988629.5
San Bernardino (SC)	2027	Light Commercial - Misc - Pressure Washers	Aggregate	Aggregate	Gasoline	620426.9128	536.55	41472.16672	15559.95
San Bernardino (SC)	2027	Light Commercial - Misc - Pressure Washers	Aggregate	Aggregate	Diesel	822.3158383	620.5	16.58274897	23579
San Bernardino (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Gasoline	264066.0627	21436.45	6717.734898	1435034
San Bernardino (SC)	2027	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Diesel	88025.96336	31459.35	288.2888592	1163995.95
San Bernardino (SC)	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Gasoline	527373.292	36383.2	8953.688518	2184579.75
San Bernardino (SC)	2027	Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	174115.5778	118041	321.3687546	5429886
San Bernardino (SC)	2028	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	321496.8379	96096.26661	96.02002048	6305607.847
San Bernardino (SC)	2028	Construction and Mining - Bucket	Aggregate	Aggregate	Diesel	7478.663875	2886.824177	4.057236982	144906.585
San Bernardino (SC)	2028	Construction and Mining - Compactor	Aggregate	Aggregate	Diesel	12164.03431	4700.846596	6.650768515	238613.2342
San Bernardino (SC)	2028	Construction and Mining - Concrete Mixer	Aggregate	Aggregate	Diesel	1129.866937	687.1186485	1.130781594	22010.66092
San Bernardino (SC)	2028	Construction and Mining - Concrete Pump	Aggregate	Aggregate	Diesel	11522.52033	3947.034819	4.921890639	226596.999
San Bernardino (SC)	2028	Construction and Mining - Crane less than 35ton	Aggregate	Aggregate	Diesel	5526.744347	2723.891711	11.70972431	106941.4154
San Bernardino (SC)	2028	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	280989.3804	66216.78432	256.7888959	5544751.105
San Bernardino (SC)	2028	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	827353.5389	250779.8007	402.0492844	16247524.44
San Bernardino (SC)	2028	Construction and Mining - Crushing/Processing Equipment	Aggregate	Aggregate	Diesel	43420.55425	11708.84133	16.35992583	856355.4923
San Bernardino (SC)	2028	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	2595131.325	1126950.199	1516.779518	50480873.43
San Bernardino (SC)	2028	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	376181.6131	122654.2591	235.5174014	7422092.306
San Bernardino (SC)	2028	Construction and Mining - Hopper Tractor Trailer	Aggregate	Aggregate	Diesel	733.7766309	188.2839535	0.266010984	14517.86216
San Bernardino (SC)	2028	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	7605.65	1854.2	15.43565725	78387.4
San Bernardino (SC)	2028	Construction and Mining - Misc - Bore/Drill Ries	Aggregate	Aggregate	Gasoline	4863.55	671.6	14.13691338	58224.8
San Bernardino (SC)	2028	Construction and Mining - Misc - Bore/Drill Ries	Aggregate	Aggregate	Diesel	33.26	0	5.426458152	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Cement And Mortar Mixer	Aggregate	Aggregate	Gasoline	30642	0	1717.553623	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Cement And Mortar Mixer	Aggregate	Aggregate	Diesel	47.92	0	37.04725151	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	38130.95	3365.3	245.5291638	155690.75
San Bernardino (SC)	2028	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	1859.55	1354.15	3.448384839	44686.95
San Bernardino (SC)	2028	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	3978.5	1365.1	3.26	87045.2
San Bernardino (SC)	2028	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	186.8	0	1.349342278	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	3170.55	87.6	115.1224457	5781.6
San Bernardino (SC)	2028	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	3.87	0	1.564021669	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	27.6	0	2.452614501	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	6084.55	1109.6	5.067241592	139809.6
San Bernardino (SC)	2028	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	103.1	0	23.67998611	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	7.28	0	0.969348253	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Pavine Equioment	Aggregate	Aggregate	Gasoline	57284.4	1832.3	1229.355698	78591.8
San Bernardino (SC)	2028	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	12.3	0	2.401233745	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	21008	0	675.008926	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	34.5	0	21.43962751	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	26193.95	3836.15	128.6407275	236808.35
San Bernardino (SC)	2028	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	211.8	0	64.87941809	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	28192.6	5489.6	13.28	461761.5
San Bernardino (SC)	2028	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	14921.2	4190.2	8.484	284174.4
San Bernardino (SC)	2028	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	5.03	0	0.633153928	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	594.6	0	8.11873976	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1363.9	496.4	188.3613338	18366.8
San Bernardino (SC)	2028	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	55732.55	14446.7	135.5067177	721765.6
San Bernardino (SC)	2028	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1410	0	250.0798403	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Surfacine Equioment	Aggregate	Aggregate	Gasoline	25400	0	329.1194765	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	3526	0	197.4154573	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Gasoline	9566.65	3277.7	4.462291136	206495.1
San Bernardino (SC)	2028	Construction and Mining - Misc - Tractors/Loaders/Backhoe	Aggregate	Aggregate	Diesel	132	0	18.05776369	0
San Bernardino (SC)	2028	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Gasoline	47732.45	10424.4	121.6437214	406288.8
San Bernardino (SC)	2028	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Diesel	178.2	0	28.01253077	0
San Bernardino (SC)	2028	Construction and Mining - Nurse Rig Other	Aggregate	Aggregate	Diesel	69.70266727	46.19446482	0.066502746	1371.097504
San Bernardino (SC)	2028	Construction and Mining - Off-Highway Tractors	Aggregate	Aggregate	Diesel	467798.6924	200371.4325	183.4988573	9088912.696
San Bernardino (SC)	2028	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	1120655.532	168543.2581	163.5651029	22167396.38
San Bernardino (SC)	2028	Construction and Mining - Other Construction Equipment	Aggregate	Aggregate	Diesel	536369.5362	176282.5248	330.3683164	10465917.11
San Bernardino (SC)	2028	Construction and Mining - Other Material Handling Equipm	Aggregate	Aggregate	Diesel	164806.1702	53156.10548	86.08871529	3227714.585
San Bernardino (SC)	2028	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	167291.5535	73811.54167	106.6347789	3242628.61
San Bernardino (SC)	2028	Construction and Mining - Pavine Equioment	Aggregate	Aggregate	Diesel	184699.7425	71328.93744	111.1046867	3611833.219
San Bernardino (SC)	2028	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	439524.189	301957.6685	538.4108932	8419794.726
San Bernardino (SC)	2028	Construction and Mining - Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	545561.7494	335593.2526	614.1381925	10493993.72
San Bernardino (SC)	2028	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	104657.3371	25118.33494	33.45458019	2062502.233
San Bernardino (SC)	2028	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1909800.431	599392.1818	705.6922298	37599273.23
San Bernardino (SC)	2028	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	1062781.441	194030.3019	353.6547999	21030749.06
San Bernardino (SC)	2028	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	889662.9777	734335.4511	1312.224468	16043290.28
San Bernardino (SC)	2028	Construction and Mining - Spray Truck	Aggregate	Aggregate	Diesel	10941.32718	4919.19944	6.916650999	211956.237
San Bernardino (SC)	2028	Construction and Mining - Spreader Tractor Trailer	Aggregate	Aggregate	Diesel	1394.212748	342.1190421	0.66502746	27426.88592
San Bernardino (SC)	2028	Construction and Mining - Spreader Truck	Aggregate	Aggregate	Diesel	8582.019431	2291.063203	2.99262357	167635.5479
San Bernardino (SC)	2028	Construction and Mining - Surfacing Equipment	Aggregate	Aggregate	Diesel	88504.53195	19061.87807	31.41705703	1743464.187
San Bernardino (SC)	2028	Construction and Mining - Tank Truck	Aggregate	Aggregate	Diesel	18636.95954	5196.127867	5.785738902	367737.9452

San Bernardino (SC)	2028	Construction and Mining - Tanker Truck Trailer	Aggregate	Aggregate	Diesel	1414.321306	720.2587467	0.864535698	27142.24799
San Bernardino (SC)	2028	Construction and Mining - Telescopic Handler	Aggregate	Aggregate	Diesel	37149.2734	21573.36238	47.48367181	711250.1348
San Bernardino (SC)	2028	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	2530194.221	1451811.768	2265.30644	47794483.63
San Bernardino (SC)	2028	Construction and Mining - Trenchers	Aggregate	Aggregate	Diesel	88333.23108	55807.39591	100.6643873	1674008.927
San Bernardino (SC)	2028	Construction and Mining - Vacuum Truck	Aggregate	Aggregate	Diesel	28575.36723	9833.120863	13.30199093	560288.6728
San Bernardino (SC)	2028	Construction and Mining - Water Truck	Aggregate	Aggregate	Diesel	85629.95779	17482.47516	22.5551178	1690999.549
San Bernardino (SC)	2028	Industrial - Aerial Lifts	Aggregate	Aggregate	Diesel	74903.69968	68925.01294	239.1602984	1356165.238
San Bernardino (SC)	2028	Industrial - Boom	Aggregate	Aggregate	Diesel	74067.93872	72385.27454	136.2064273	1329307.806
San Bernardino (SC)	2028	Industrial - Forklifts	Aggregate	Aggregate	Diesel	332094.5601	215230.7751	675.1079838	6280579.573
San Bernardino (SC)	2028	Industrial - Garbage Refuse	Aggregate	Aggregate	Diesel	3583.445255	542.1112	0.625707472	70802.39332
San Bernardino (SC)	2028	Industrial - Garbage Transfer	Aggregate	Aggregate	Diesel	645.8793331	116.2158956	0.125119396	12791.28492
San Bernardino (SC)	2028	Industrial - Misc - Aerial Lifts	Aggregate	Aggregate	Gasoline	58177.45	23308.9	105.6586847	1165445
San Bernardino (SC)	2028	Industrial - Misc - Aerial Lifts	Aggregate	Aggregate	Diesel	89.5	0	41.73259116	0
San Bernardino (SC)	2028	Industrial - Misc - Forklifts	Aggregate	Aggregate	Gasoline	1831245.15	898651.9	499.1024948	59174595.7
San Bernardino (SC)	2028	Industrial - Misc - Other General Industrial Equipment	Aggregate	Aggregate	Gasoline	24827.86	10008.3	68.27687413	451939.35
San Bernardino (SC)	2028	Industrial - Misc - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	70.1	0	8.609839529	0
San Bernardino (SC)	2028	Industrial - Misc - Other Material Handling Equipment	Aggregate	Aggregate	Gasoline	13724	5080.8	13.26	272844.8
San Bernardino (SC)	2028	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Gasoline	98990.914	28499.2	91.22860002	1431891.35
San Bernardino (SC)	2028	Industrial - Misc - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	18.58	0	3.47742473	0
San Bernardino (SC)	2028	Industrial - Mower	Aggregate	Aggregate	Diesel	39857.53389	47106.65368	75.16973166	718162.784
San Bernardino (SC)	2028	Industrial - Other General Industrial Equipment	Aggregate	Aggregate	Diesel	101465.7372	48907.82701	95.79485518	1957278.336
San Bernardino (SC)	2028	Industrial - Other Truck	Aggregate	Aggregate	Diesel	59628.78117	14522.6794	16.64329471	1173515.295
San Bernardino (SC)	2028	Industrial - Railcars or Track Cars	Aggregate	Aggregate	Diesel	4573.257291	1637.098637	2.096531943	90145.49084
San Bernardino (SC)	2028	Industrial - Sweepers/Scrubbers	Aggregate	Aggregate	Diesel	19612.53859	18720.81091	41.81955222	356933.4342
San Bernardino (SC)	2028	Industrial - Tow Tractor	Aggregate	Aggregate	Diesel	134.76949	21.75542597	0.031278849	2663.572442
San Bernardino (SC)	2028	Industrial - Yard Goat	Aggregate	Aggregate	Diesel	159200.1161	59301.53858	38.91573432	3143548.397
San Bernardino (SC)	2028	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Gasoline	1204915.494	34952.4	12102.67841	2280990.85
San Bernardino (SC)	2028	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Diesel	33726.91551	30273.1	43.74867984	1120104.7
San Bernardino (SC)	2028	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Gasoline	1979556.513	74241	79560.16102	3106723.05
San Bernardino (SC)	2028	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	160859.4734	60947.7	555.3606148	2011274.1
San Bernardino (SC)	2028	Light Commercial - Misc - Pressure Washers	Aggregate	Aggregate	Gasoline	549929.2263	547.5	41840.82144	15877.5
San Bernardino (SC)	2028	Light Commercial - Misc - Pressure Washers	Aggregate	Aggregate	Diesel	831.5665428	631.45	16.64077018	23995.1
San Bernardino (SC)	2028	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Gasoline	267883.1755	21713.85	6815.22404	1453736.6
San Bernardino (SC)	2028	Light Commercial - Misc - Pumps	Aggregate	Aggregate	Diesel	88746.16561	31809.75	290.2089051	1176960.75
San Bernardino (SC)	2028	Light Commercial - Misc - Welders	Aggregate	Aggregate	Gasoline	534545.5772	36799.3	9068.319628	2210275.75
San Bernardino (SC)	2028	Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	175834.942	119391.5	324.0869987	5492009

Operational Energy Consumption (2029)

Operational Source	Energy Usage		
Electricity (Kilowatt-Hour)			
Proposed Project	684,865.98		https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0
Countywide	282,783,000,000	2.83E+05	GW
Net	0.0002%		
Natural Gas (Thousands British Thermal Units)			
Proposed Project	2,816,074.41		https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-1
Countywide	1,110,400,000,000	1.11E+04	Mtherms
Net	0.0003%		
Petroleum (Gasoline) Consumption			
	Annual VMT	**Gallons of Gasoline Fuel**	
Proposed Project	2,658,938.50	93682.33	
Countywide Energy Consumption		4.88E+08	
Percentage Increase		0.02%	

Source: CalEEMod Output Sheets (see Attachment B)

CalEEMod Output

Land Use Type	VMT/Year
Single Family Housing	2658938.5
City Park	
Other Asphalt Surfaces	
Other Non-Asphalt Surfaces	
Other Asphalt Surfaces	

5.11.1 Unmitigated

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
Single Family Housing	684865.9777	2816074.409
City Park	0	0
Other Asphalt Surfaces	0	0
Other Non-Asphalt Surface	0	0
Other Asphalt Surfaces	0	0
	684865.9777	2816074.409

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consumption, kWh/day for Energy Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	Fuel Consumption
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Gasoline	159.894357	0.034873179
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Diesel	1888808.555	297.4847985
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	19710842.23	612.0965926
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Diesel	26815.31548	0.594852513
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Gasoline	1319681.01	49.85152068
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Diesel	43.04105961	0.001642856
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Gasoline	8723423.998	327.6284447
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Diesel	28944.33842	0.805541947
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Gasoline	617197.2052	41.70672464
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Diesel	422115.637	20.24111736
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Gasoline	91702.27003	7.150479162
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Diesel	186257.2608	10.59523266
San Bernardino (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	122430.1942	2.874373015
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	5861132.314	271.9577147
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Diesel	73174.95507	2.851564271
San Bernardino (SC)	2028	MH	Aggregate	Aggregate	Gasoline	24529.40935	5.022117905
San Bernardino (SC)	2028	MH	Aggregate	Aggregate	Diesel	11305.56104	1.109185467
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Gasoline	71750.62125	13.20141951
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Diesel	672378.2079	73.77383347
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Gasoline	13014.57879	2.457876704
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Diesel	15365.96653	2.000406602
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Gasoline	14368.18869	1.586828862
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Diesel	6677.802406	0.896171972
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Gasoline	5295.928288	0.410528473
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Diesel	447.4667714	0.043453785
Diesel		410.3978014		149795197.5			
Gasoline		1335.979494		487632515.4			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	Fuel Rate	
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Diesel	672378.2079	73.77383347	9.11	100%
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Diesel	1888808.555	297.4847985	6.35	100%
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Diesel	422115.637	20.24111736	20.85	32.7%
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Diesel	186257.2608	10.59523266	17.58	59.7%
						Average MGP From Vehicle Splits		7.68	

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for Combustion VMT and Electric VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Gasoline and Diesel Fuel Consumption, 1000 diesel equivalent gallons/day for Natural Gas Fuel Consumption, kWh/day for Energy Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption		
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	19710842.23	612.0965926	32.20	100%
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Gasoline	1319681.01	49.85152068	26.47	100%
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Gasoline	8723423.998	327.6284447	26.63	100%
San Bernardino (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	122430.1942	2.874373015	42.59	100%
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	5861132.314	271.9577147	21.55	100%
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Gasoline	617197.2052	41.70672464	14.80	67.3%
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Gasoline	91702.27003	7.150479162	12.82	40.3%
					Gasoline		Average MGP From Vehicle Splits	28.38	

LDA	49.54%	51.76%		
LDT1	3.74%	3.91%		
LDT2	21.57%	22.54%		
MCY	2.06%	2.16%		
MDV	15.23%	15.91%		
LHDT1	2.80%	2.93%	1.89%	
LHDT2	0.77%	0.80%	0.46%	
	95.72%		94.50%	95.06%
				Diesel
LHD1	2.80%	38.65%	0.92%	
LHD2	0.77%	10.61%	0.31%	
MHD	1.82%	25.08%		
HHD	1.86%	25.66%		
	7.25%		4.91%	4.94%

Project Construction GHG Emissions

Activity	
	CO2e
2027	308
2028	157
Total Emissions	465
Total Emissions Amortized Over 30 Years	**15**

Source: CalEEMod Output Sheets

Total Project GHG Emissions

Activity	**Operational**
	MTCO2e
Project Operation	
Mobile	938
Area	23
Energy	258
Water	16
Waste	31
Refrigeration	1
Total Project Gross Operation Emissions	1266
Project Construction	
Amortized Construction Emissions	15
Project Construction and Operation	
Project Total Emissions	**1,282**
Existing	**350**
Net	**931**
Significance Threshold	**3,000**
Threshold Exceeded?	**No**

Notes: 1. Numbers may vary due to rounding.

Source: CalEEMod Output Sheets

Fleet Mix

Land Use Subtype	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	Total
CalEEMod default	1.860939	49.54271	3.741189	21.57099	2.803145	0.769575	2.06385	15.22977	0.400315	1.818885	0.059449	0.108459	0.030724	100

<Updated

Passenger	
LDA	0.495427
LDT1	0.037412
LDT2	0.21571
MCY	0.020639
MDV	0.152298
Sum	0.921485
Trucks	
LHD1	0.028031
LHD2	0.007696
MHD	0.018189
HHD	0.018609
Sum	0.072525
	0.994011

ATTACHMENT C – DEMOLITION CALCULATIONS SHEET

25-093 Nerio Farms Chino

Estimates of Demolition Debris **Demo Building** tons

Building Demolition

Building	Height(ft)	Area (ft2)	Volume (ft3)	Volume (cy)	
1	15	5245	78675	962	
2	15	1675	25125	307	
3	10	23642	236420	5779	< greenhouse rows
Total		30562	340220	7048	

Weight of the Building Demolition Debris (ton/cy): 0.5

Total Weight of Building Debris **3524** **tons**

Note 1: Total square footage of existing school buildings contained in the project description
Note 2: FEMA Debris Estimating Field Guide, FEMA 329. September 2010
Note 3: CalEEMod User Guide

Hardscape Demolition

Weight of Hardscape 145 lb/ft3

Area	Height (ft)	Area (ft2)	Volume (cf)	Weight (lbs)	Weight (tons)	
1	0.5	0	0	0	0	
2	0.5	0	0	0	0	
3	0	0	0	0	0	
Total		**0**	**0**	**0**	**0**	**tons**

Total Demolition Weight 3524 tons