

PROJ-2023-00129: Joshua Tree Estates Project
Community of Joshua Tree, San Bernardino County, California
APN 0605-051-01
Tentative Tract Map TTM 20668
Planned Development (Residential)
CalEEMod Runs

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PROJECT AIR QUALITY IMPACT

INTRODUCTION

The Joshua Tree Estates Project is an application for residential development being processed by the County of San Bernardino under case number PROJ-2023-00129 that includes the subdivision of 81.2 gross acres of land into 32 developed residential lots in the Rural Living (RL) General Plan Land Use designation and the construction and operation of a planned residential development for 32 single-family villas within the Joshua Tree/Rural Living (JT/RL) Zoning District. The Project site is located at the southeast corner of East Broadway and Laferney Avenue and is bounded by Laferney Avenue to the west, East Broadway to the north, Sunever Road to the east, and Sapphire Street to the south. The Project is located in the north one-half of the northeast one-quarter of Section 20, Township 1 North, Range 7 East, and is depicted on the Joshua Tree North U.S. Geological Survey's (USGS) 7.5-minute Topographic Quadrangle map. The Assessor Parcel Number is 0605-051-01.

The proposed subdivision is also identified as Tentative Tract Map 20668 with lot ranges between 2.50 and 2.67 acres and the internal roadways account for approximately 11.0 acres. Each lot proposes the construction of a single-family home with a septic system and individual infiltration trenches for water quality treatment purposes. The Project consists of 32 single-family villas across three models: Plan 1 will be 11 units at 2,265 sq. ft. each for a total of 24,915 sq. ft., Plan 2 will be 11 units at 2,470 sq. ft. each for a total of 27,170 sq. ft., and Plan 3 will be 10 units at 2,532 sq. ft. for a total of 25,320 sq. ft. with approximately 77,405 sq. ft. of residential floor area for the entire Project. Additional improvements include construction of adjacent roadways to their ultimate rights-of-way and new internal 50-foot-wide public roads identified as Arizona, California and Delaware Avenues.

This impact assessment was prepared to evaluate whether the estimated criteria pollutants and GHG emissions generated from the project would cause a significant impact to the air resources in the Project area. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.). The assessment is consistent with the methodology and emission factors endorsed by Mojave Desert Air Quality Management District (MDAQMD), California Air Resource Board (CARB), and the United States Environmental Protection Agency (US EPA).

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

The 1976 Lewis Air Quality Management Act established the Mojave Desert Air Quality Management District (MDAQMD) and other air districts throughout the State. The federal CAA Amendments of 1977 required that each state adopt an implementation plan outlining pollution control measures to attain the federal standards in nonattainment areas of the state.

The CARB is responsible for incorporating air quality management plans for local air basins into a State Implementation Plan (SIP) for EPA approval. Significant authority for air quality control within them has been given to local air districts that regulate stationary source emissions and develop local nonattainment plans. California is divided geographically into air basins for the purpose of managing the air resources of the State on a regional basis. An air basin generally has similar meteorological and geographic conditions throughout.

The State is currently divided into 15 air basins. The proposed Project site is located within the Mojave Desert Air Basin (MDAB). The MDAQMD includes the desert portion of the San Bernardino County. The MDAQMD is responsible for controlling emissions primarily from stationary sources within the MDAQMD and also maintains air quality monitoring stations to document historical and current levels of air quality within the District. The MDAQMD is also responsible for developing, updating, and implementing the Ozone Attainment Plan (MDAQMD 2004) which establishes a plan to implement, maintain, and enforce a program of emission control measures to attain and maintain the federal ozone air quality standards. Attainment plans prepared by the various air pollution control districts throughout the state are used to develop the SIP for the State of California. The proposed Project is located within the MDAQMD and, thus, is subject to the rules and regulations of the MDAQMD.

The MDAQMD and SCAG are responsible for formulating and implementing the air quality attainment plan (AQAP) for the Basin. Regional AQAPs were adopted in 1991, 1994, and 1997. The following SIP and AQAP are the currently approved plans for the Basin region:

- 1997 SIP for O₃, PM₁₀, and NO₂
- 1995 Mojave Desert Planning Area Federal PM₁₀ Attainment Plan; no formal action by the EPA

The MDAQMD completed the MDAQMD 2004 Ozone Attainment Plan (State and federal) in April 2004, which has been approved by the EPA.

The MDAQMD is downwind of the Los Angeles basin and the San Joaquin Valley. Prevailing winds transport ozone and ozone precursors from both regions into and through the MDAB during the summer ozone season. These transport couplings have been officially recognized by the CARB. Local MDAQMD emissions contribute to exceedances of both the NAAQS and CAAQS for ozone, but photochemical ozone modeling conducted by the MDAQMD and CARB indicates that the MDAB would be in attainment of both standards without the influence of this transported air pollution from upwind regions. Therefore, emissions reductions in the upwind area are critical to the attainment demonstration.

The following includes, but is not limited to, the MDAQMD rules that are applicable to the proposed project:

Rule 201 (Permit to Construct) requires written authorization to build, erect, install, alter, or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants. With respect to the proposed project, this rule would apply to any stationary equipment that is not otherwise exempt from this rule as an insignificant source of air pollutants (see Rule 219).

Rule 203 (Permit to Operate) requires written authorization to operate any equipment, the use of which may cause the issuance of air pollutants, or the use of which may reduce or control the issuance of air contaminants. With respect to the proposed project, this rule would apply to any stationary equipment that is not otherwise exempt from this rule as an insignificant source of air pollutants (see Rule 219).

Rule 219 (Equipment Not Requiring A Written Permit Pursuant to Regulation II) specifies stationary sources that the MDAQMD considers to be insignificant sources of air pollutants that are exempt from Rules 201 and 202. With respect to the proposed project, the following sources would be exempt from permit requirements:

- Comfort air conditioning or ventilating systems which are not designed or used to remove air

- contaminants generated by, or released from, specific equipment units;
- Space heaters; and
- Equipment used exclusively for steam cleaning.

Rule 402 (Nuisance). This rule specifies that a person may 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.

Rule 403.2 (Fugitive Dust Control for the Mojave Desert Planning Area). This rule requires owners or operators of a construction or demolition fugitive dust source to implement the fugitive dust control measures listed in Rule 403.2. These measures include periodic watering for short-term stabilization of disturbed surface area to minimize visible dust emissions, stabilization of graded surfaces if no development is planned within 30 days, reducing non-essential earth moving activity under high wind conditions, and more. In addition, for sites over 100 acres such as the proposed project, the control measures in Rule 403.2 must also be implemented. The additional control measures include preparing and submitting a dust control plan to the MDAQMD prior to commencing earth-moving activities. The dust control plan must describe all applicable dust control measures that will be implemented at the project site. Other additional control measures to minimize visible fugitive dust for sites over 100 acres include stabilizing access routes, maintaining natural topography to the extent possible, and constructing paved roads and parking lots first where feasible.

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

Rule 1160 (Internal Combustion Engines). This rule establishes limits for VOC, NO_x, and CO emissions associated with stationary internal combustion engines. However, the provisions of the rule do not apply to the following engines:

- All internal combustion engines rated at less than 500 brake horsepower;
- All internal combustion engines operated less than 100 hours within any continuous four consecutive calendar quarter period; and
- Emergency internal combustion engines.

Regulation XIII (New Source Review). For new and modified stationary sources subject to permitting requirements (see Rule 201), this series of rules prescribes the use of Best Available Control Technology thresholds. The applicability of these requirements would be determined upon submittal of an application for permit to construct under Rule 201.

COUNTY OF SAN BERNARDINO GENERAL PLAN

Local jurisdictions, such as the County of San Bernardino, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the County is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The County is also responsible for the implementation of transportation control measures as outlined in the 2016 AQMP and MDAQMD Attainment Plans. Examples of such measures include bus turnouts, energy-efficient streetlights,

and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the County assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

In accordance with the CEQA requirements, the County does not, however, have the expertise to develop plans, programs, procedures, and methodologies to ensure that air quality within the County and region will meet federal and state standards. Instead, the County relies on the expertise of the SCAQMD and MDAQMD and utilizes the SCAQMD CEQA Handbook and MDAQMD California Environmental Quality Act (CEQA) And Federal Conformity Guidelines (depending on the location/jurisdiction of the project) as guidance documents for the environmental review of plans and development proposals within its jurisdiction.

The County of San Bernardino General Plan contains the following air quality-related goals and policies that are applicable to the proposed project:

Goal CO 4 The County will ensure good air quality for its residents, businesses, and visitors to reduce impacts on human health and the economy.

CO 4.1 Because developments can add to the wind hazard (due to increased dust, the removal of wind breaks, and other factors), the County will require either as mitigation measures in the appropriate environmental analysis required by the County for the development proposal or as conditions of approval if no environmental document is required, that developments in areas identified as susceptible to wind hazards to address site-specific analysis of:

- a. Grading restrictions and/or controls on the basis of soil types, topography or season.
- b. Landscaping methods, plant varieties, and scheduling to maximize successful revegetation.
- c. Dust-control measures during grading, heavy truck travel, and other dust generating activities.

CO 4.2 Coordinate air quality improvement technologies with the South Coast Air Quality Management District (SCAQMD) and the Mojave Desert Air Quality Management District (MDAQMD) to improve air quality through reductions in pollutants from the region.

CO 4.4 Because congestion resulting from growth is expected to result in a significant increase in the air quality degradation, the County may manage growth by insuring the timely provision of infrastructure to serve new development.

Programs

1. Consistent with the land use designations in the Land Use Policy Map (see the Land Use Element) that will improve growth management at a sub-regional level in relation to major activity centers, review new development to encourage new intensified development around transit nodes and along transit corridors.
2. Locate and design new development in a manner that will minimize direct and indirect emission of air contaminants through such means as:

- a. Promoting mixed-use development to reduce the length and frequency of vehicle trips;
- b. Providing for increased intensity of development along existing and proposed transit corridors; and
- c. Providing for the location of ancillary employee services (including but not limited to child care, restaurants, banking facilities, convenience markets) at major employment centers for the purpose of reducing midday vehicle trips.
- d. The County shall comply, to the extent feasible, with the recommendations on siting new sensitive land uses, as recommended in California Air Resources Board’s Air Quality and Land Use Handbook: A Community Health Perspective, which includes the following:

Notable siting recommendations include avoiding siting new sensitive land uses within:

- 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day;
 - 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units per day, or where transport refrigeration units exceed 300 hours per week);
 - 1,000 feet of a chrome plater;
 - 300 feet of any dry cleaning operation; and 300 feet of a large gas station (defined as a facility with a through put of 3.6 million gallons per year or greater); a 50 foot separation is recommended for typical gas dispensing facilities.
3. Incorporate phasing policies and requirements in the General Plan and development plans to achieve timely provision of infrastructure (particularly transportation facilities) to serve development through:
 - a. Tying growth to Level of Service (LOS) standards; and
 - b. Using phasing areas to manage growth.

County of San Bernardino Development Code

§ 83.01.040 Air Quality.

(a) *Equipment Permit and Inspection Requirements.* Required permits shall be obtained from either the Mojave Air Pollution Management District or the South Coast Air Quality Management District depending on the location of the subject property and equipment for equipment that may cause air pollution. Before the equipment may be constructed, plans and specifications shall be submitted to the appropriate District for approval.

(b) *Permits from Air Quality Management Districts.* Permits shall be obtained from either the Mojave Air Pollution Management District or the South Coast Air Quality Management District depending on the location

of the subject property and equipment. If requested by the Director, uses, activities, or processes that require Air Quality Management District approval to operate shall file a copy of the permit with the Department within 30 days of its approval.

(c) *Diesel Exhaust Emissions Control Measures.* The following emissions control measures shall apply to all discretionary land use projects approved by the County on or after January 15, 2009:

(1) *On-Road Diesel Vehicles.* On-road diesel vehicles are regulated by the State of California Air Resources Board.

(2) *Off-Road Diesel Vehicle/Equipment Operations.* All business establishments and contractors that use off-road diesel vehicle/equipment as part of their normal business operations shall adhere to the following measures during their operations in order to reduce diesel particulate matter emissions from diesel-fueled engines:

(A) Off-road vehicles/equipment shall not be left idling on site for periods in excess of five minutes. The idling limit does not apply to:

- (I) Idling when queuing;
- (II) Idling to verify that the vehicle is in safe operating condition;
- (III) Idling for testing, servicing, repairing or diagnostic purposes;
- (IV) Idling necessary to accomplish work for which the vehicle was designed (such as operating a crane);
- (V) Idling required to bring the machine system to operating temperature; and
- (VI) Idling necessary to ensure safe operation of the vehicle.

(B) Use reformulated ultra low-sulfur diesel fuel in equipment and use equipment certified by the U.S. Environmental Protection Agency (EPA) or that pre-dates EPA regulations.

(C) Maintain engines in good working order to reduce emissions.

(D) Signs shall be posted requiring vehicle drivers to turn off engines when parked.

(E) Any requirements or standards subsequently adopted by the South Coast Air Quality Management District, the Mojave Desert Air Quality Management District or the California Air Resources Board.

(F) Provide temporary traffic control during all phases of construction.

(G) On-site electrical power connections shall be provided for electric construction tools to eliminate the need for diesel-powered electric generators, where feasible.

(H) Maintain construction equipment engines in good working order to reduce emissions. The developer shall have each contractor certify that all construction equipment is properly serviced and maintained in good operating condition.

(I) Contractors shall use ultra low sulfur diesel fuel for stationary construction equipment as required by Air Quality Management District (AQMD) Rules 431.1 and 431.2 to reduce the release of undesirable emissions.

(J) Substitute electric and gasoline-powered equipment for diesel-powered equipment, where feasible.

(3) *Project Design.* Distribution centers, warehouses, truck stops and other facilities with loading docks where diesel trucks may reside overnight or for periods in excess of three hours shall be designed to enable any vehicle using these facilities to utilize on-site electrical connections to power the heating and air conditioning of the cabs of such trucks, and any refrigeration unit(s) of any trailer being pulled by the trucks, instead of operating the diesel engines and diesel refrigeration units of such trucks and trailers for these purposes. This requirement shall also apply to Recreational Vehicle Parks (as defined in § [810.01.200\(k\)](#) of this title) and other development projects where diesel engines may reasonably be expected to operate on other than an occasional basis.

THRESHOLDS OF SIGNIFICANCE

The project is within the MDAB, which is under the jurisdiction of the MDAQMD. According to the MDAQMD, a project is non-conforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable MDAQMD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and it is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan).

The MDAQMD currently recommends that projects with construction-related and/or operational emissions that exceed any of the following emissions thresholds as shown in Table 1 should be considered significant. The MDAQMD has identified thresholds of 100,000 tons per year or 548,000 pounds per day of CO2e emissions for individual projects.

TABLE 1: MDAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

Pollutant	Annual Thresholds (tons/year)	Daily Thresholds (pounds/day)
VOC	25	137
NOx	25	137
CO	100	548
SOx	25	137
PM10	15	82
PM2.5	15	82
Lead	0.6	3
Greenhouse Gases (CO2e)	100,000	548,000

Source: <http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=2910>

CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE AIR QUALITY

Emissions are estimated using the CalEEMod (Version 2022.1.1.39) software, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Regional data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California. CalEEMod output for construction and operational activity are provided in Appendix A.

CONSTRUCTION EMISSIONS

The proposed 32 single-family residential units are anticipated to be constructed in a three phases with 12 units including models in the first phase and 10 units in the second and third phase. The Project is anticipated to have an opening year of 2029. Construction activities associated with the Project will result in emissions of VOCs, NOX, SOX, CO, PM10, and PM2.5. Construction related emissions are expected from the following construction activities:

- Site Preparation
- Grading
- Building Construction
- Architectural Coating
- Paving

GRADING/EXCAVATION ACTIVITIES

Dust is typically a major concern during grading and excavation activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. This analysis assumes that earthwork activities would result in a balanced earthwork condition with no export or import of soils.

CONSTRUCTION WORKER VEHICLE TRIPS

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information included in CalEEMod.

CONSTRUCTION DURATION

Construction is expected to commence in January 2027 and will continue through March 2029. The construction schedule utilized in the analysis, shown in Table 2, represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA Guidelines. The duration of construction activities was based on Project specific data provided by the Project owner, where available.

TABLE 2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	01/04/2027	01/13/2027	8
Site Preparation	01/14/2027	01/28/2027	11
Grading	02/01/2027	05/14/2027	75
Building Construction	05/24/2027	03/26/2029	481
Paving	03/22/2028	05/06/2028	33
Architectural Coating	03/12/2029	04/21/2029	30

Source: CalEEMod, Appendix A.

CONSTRUCTION EMISSIONS SUMMARY

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions with compliance with Rules 403.2 and 1113 are summarized in Table 3. Detailed construction model outputs are presented in Appendix A. The “mitigated” emissions estimate in Appendix A are utilized to include the emissions reductions from compliance with MDAQMD rules. With the inclusion of these measures regional emissions would be less-than-significant, as shown at Table 3.

TABLE 3: CONSTRUCTION EMISSIONS SUMMARY COMPARED AGAINST THRESHOLDS

Activity	Emissions (lbs/day)					
	VOC	NOX	CO	SOX	PM10	PM2.5
Maximum Daily Summer Emissions	17.6	36.1	39.6	0.08	8.2	4.2
Maximum Daily Winter Emissions	18.9	36.1	39.0	0.08	8.2	4.2
MDAQMD Regional Threshold	137	137	548	137	82	82
Threshold Exceeded?	No	No	No	No	No	No
Annual Maximum Emissions	0.33	2.34	2.68	0.005	0.39	0.21
MDAQMD Regional Threshold	25	25	100	25	15	15
Threshold Exceeded?	No	No	No	No	No	No

Source: CalEEMod, Appendix A.

OPERATIONAL EMISSIONS

Operational or long-term emissions occur over the life of the Project. Both mobile and area sources generate operational emissions. Area source emissions arise from consumer product usage, heaters that consume natural gas, gasoline-powered landscape equipment, and architectural coatings (painting). Mobile source emissions from motor vehicles are the largest single long-term source of air pollutants from the operation of the Project. Small amounts of emissions would also occur from area sources such as the consumption of propane for heating, from landscaping emissions, and consumer product usage. The operational emissions were estimated using the latest version of CalEEMod.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed Project. The project will generate approximately 302 weekday trips per day. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions. The CalEEMod default trip lengths were used in this analysis. Please see CalEEMod output comments sections in Appendix A for details.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors,

generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment.

Per MDAQMD Rule 1113 as amended on April 23, 2012, the architectural coatings that would be applied after January 1, 2013 will be limited to an average of 150 grams per liter or less.

Energy Usage

2022.1.1.39 CalEEMod defaults were utilized.

OPERATIONAL EMISSIONS SUMMARY

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of CalEEMod model. The operating emissions were based on year 2025, which is a conservative estimate of the opening year for the project. The summer and winter emissions created by the proposed project’s long-term operations were calculated and the highest emissions from either summer or winter are summarized in Table 4.

TABLE 4: REGIONAL SIGNIFICANCE - OPERATIONAL EMISSIONS (TONS/YEAR)

Activity	Pollutant Emissions (tons/year) ¹					
	VOC	NOx	CO	SO2	PM10	PM2.5
Area Sources ²	0.29	0.002	0.16	0.00001	0.00008	0.00006
Energy Usage	0.005	0.05	0.02	0.0003	0.004	0.004
Mobile Sources ³	0.24	0.29	2.11	0.006	0.61	0.16
Total Emissions	0.53	0.34	2.29	0.006	0.61	0.16
MDAQMD Annual Thresholds	25	25	100	25	15	12
Exceeds Threshold?	No	No	No	No	No	No
Notes: ¹ Source: CalEEMod Version 2022.1.1.39 ² Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment. ³ Mobile sources consist of emissions from vehicles and road dust.						

Table 4 provides the project's unmitigated operational emissions. Table 4 shows that the project does not exceed the MDAQMD regional emissions thresholds. Therefore, operational emissions are considered to be less than significant.

CONCLUSIONS

Air pollutant emissions associated with the proposed Project have been evaluated to determine the level of impact from construction activities and future operations of the proposed Project.

CONSTRUCTION

Construction of the proposed Project has the potential to create air quality impacts through the use of heavy-duty construction equipment and through vehicle trips generated from construction workers traveling to and from the Project site. In addition, fugitive dust emissions would result from grading and construction activities. As shown in Table 3, construction-related daily regional and localized emissions would not exceed MDAQMD significance thresholds. Therefore, construction impacts would be less than significant.

OPERATION

Air pollutant emissions associated with proposed Project operations would be generated by the consumption of electricity and by the operation of on-road vehicles. As shown in Table 4, regional and localized emissions associated with the proposed Project would not exceed the MDAQMD daily significance thresholds. Therefore, operational impacts would be less than significant.

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Joshua Tree Estates -Tentative Tract Map 20668 v2 Custom Report

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8.4.4. Dust from Material Movement

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Joshua Tree Estates -Tentative Tract Map 20668 v2
Construction Start Date	1/4/2027
Operational Year	2029
Lead Agency	San Bernardino County
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60000
Precipitation (days)	12.2000
Location	34.16301544610043, -116.26966457605005
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5143
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.39

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	32.0000	Dwelling Unit	70.2000	77,405.0	0.00000	0.00000	78.0000	—

Other Asphalt Surfaces	11.0000	Acre	11.0000	0.00000	0.00000	0.00000	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Energy	E-15	Require All-Electric Development
Water	W-5	Design Water-Efficient Landscapes
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-4*	Recycle Demolished Construction Material
Area Sources	AS-1	Use Low-VOC Cleaning Supplies

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.3333	22.0629	45.9621	49.9287	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,813.0	10,813.0	0.42512	0.09942	10,854.7
Mit.	22.3333	22.0629	45.9621	49.9287	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,813.0	10,813.0	0.42512	0.09942	10,854.7
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	21.3821	21.3391	45.9768	49.1667	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,760.8	10,760.8	0.42655	0.10014	10,801.4
Mit.	21.3821	21.3391	45.9768	49.1667	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,760.8	10,760.8	0.42655	0.10014	10,801.4
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.20837	2.04451	14.8410	16.7974	0.03203	0.58764	2.15655	2.74418	0.54068	0.95717	1.49785	—	3,509.20	3,509.20	0.13665	0.03894	3,524.49
Mit.	2.20837	2.04451	14.8410	16.7974	0.03203	0.58764	2.15655	2.74418	0.54068	0.95717	1.49785	—	3,509.20	3,509.20	0.13665	0.03894	3,524.49
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40303	0.37312	2.70849	3.06552	0.00584	0.10724	0.39357	0.50081	0.09867	0.17468	0.27336	—	580.987	580.987	0.02262	0.00645	583.520
Mit.	0.40303	0.37312	2.70849	3.06552	0.00584	0.10724	0.39357	0.50081	0.09867	0.17468	0.27336	—	580.987	580.987	0.02262	0.00645	583.520
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.38164	5.37298	45.9621	49.9287	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,813.0	10,813.0	0.42512	0.09942	10,854.7
2028	22.3333	22.0629	14.9206	21.8489	0.03566	0.50261	0.34323	0.84584	0.46252	0.08168	0.54420	—	3,930.74	3,930.74	0.14582	0.05352	3,951.49
2029	21.3821	21.3391	1.58831	2.22431	0.00345	0.02568	0.00000	0.02568	0.02363	0.00000	0.02363	—	267.019	267.019	0.01083	0.00217	267.936

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.36731	5.35793	45.9768	49.1667	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,760.8	10,760.8	0.42655	0.10014	10,801.4
2028	19.5036	19.2388	14.9371	21.3235	0.03566	0.50261	0.34323	0.84584	0.46252	0.08168	0.54420	—	3,893.07	3,893.07	0.14635	0.05352	3,912.71
2029	21.3821	21.3391	9.32996	12.8354	0.02462	0.28617	0.17985	0.46601	0.26340	0.04338	0.30678	—	2,539.08	2,539.08	0.09563	0.03712	2,552.55
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.05816	1.72825	14.8410	16.7974	0.03203	0.58764	2.15655	2.74418	0.54068	0.95717	1.49785	—	3,509.20	3,509.20	0.13665	0.03894	3,524.49
2028	2.20837	2.04451	7.20557	9.72995	0.01823	0.23088	0.13450	0.36538	0.21250	0.03239	0.24489	—	1,890.11	1,890.11	0.07095	0.02786	1,900.40
2029	0.80569	0.76900	1.59618	2.20516	0.00419	0.04831	0.02969	0.07799	0.04446	0.00716	0.05162	—	430.328	430.328	0.01620	0.00623	432.633
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.37561	0.31541	2.70849	3.06552	0.00584	0.10724	0.39357	0.50081	0.09867	0.17468	0.27336	—	580.987	580.987	0.02262	0.00645	583.520
2028	0.40303	0.37312	1.31502	1.77572	0.00333	0.04214	0.02455	0.06668	0.03878	0.00591	0.04469	—	312.930	312.930	0.01175	0.00461	314.633
2029	0.14704	0.14034	0.29130	0.40244	0.00076	0.00882	0.00542	0.01423	0.00811	0.00131	0.00942	—	71.2457	71.2457	0.00268	0.00103	71.6274

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	8.90702	10.8389	1.77736	4.07393	5.85129	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
2028	22.2617	21.9990	14.7369	20.2141	0.03482	0.50107	0.00000	0.50107	0.46098	0.00000	0.46098	—	3,497.82	3,497.82	0.14189	0.02838	3,509.83
2029	21.3821	21.3391	1.58831	2.22431	0.00345	0.02568	0.00000	0.02568	0.02363	0.00000	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	8.90702	10.8389	1.77736	4.07393	5.85129	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
2028	19.4536	19.1909	14.7369	20.2141	0.03482	0.50107	0.00000	0.50107	0.46098	0.00000	0.46098	—	3,497.82	3,497.82	0.14189	0.02838	3,509.83
2029	21.3821	21.3391	9.18776	12.3175	0.02377	0.28463	0.00000	0.28463	0.26186	0.00000	0.26186	—	2,301.84	2,301.84	0.09337	0.01867	2,309.74

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.99998	1.67668	14.7346	16.1186	0.03166	0.58697	1.98423	2.57120	0.54001	0.91627	1.45628	—	3,306.03	3,306.03	0.13411	0.02682	3,317.38
2028	2.16996	2.00769	7.09220	9.26480	0.01762	0.22978	0.00000	0.22978	0.21140	0.00000	0.21140	—	1,706.97	1,706.97	0.06924	0.01385	1,712.83
2029	0.79766	0.76131	1.57181	2.10983	0.00405	0.04805	0.00000	0.04805	0.04421	0.00000	0.04421	—	390.205	390.205	0.01583	0.00317	391.545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.36500	0.30599	2.68906	2.94165	0.00578	0.10712	0.36212	0.46924	0.09855	0.16722	0.26577	—	547.351	547.351	0.02220	0.00444	549.230
2028	0.39602	0.36640	1.29433	1.69083	0.00322	0.04193	0.00000	0.04193	0.03858	0.00000	0.03858	—	282.609	282.609	0.01146	0.00229	283.579
2029	0.14557	0.13894	0.28686	0.38504	0.00074	0.00877	0.00000	0.00877	0.00807	0.00000	0.00807	—	64.6030	64.6030	0.00262	0.00052	64.8247

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.16300	0.14760	0.14868	2.31789	0.00084	0.00154	0.42481	0.42481	0.00154	0.09957	0.09957	—	456.670	456.670	0.00502	0.01922	462.807
2028	0.12117	0.10864	0.18369	1.63481	0.00084	0.00154	0.34323	0.34477	0.00154	0.08168	0.08322	—	432.911	432.911	0.00393	0.02514	441.660
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.14867	0.13255	0.15952	1.55588	0.00084	0.00154	0.42481	0.42481	0.00154	0.09957	0.09957	—	404.468	404.468	0.00645	0.01955	409.471
2028	0.09988	0.09669	0.20019	1.10944	0.00084	0.00154	0.34323	0.34477	0.00154	0.08168	0.08322	—	395.246	395.246	0.00446	0.02514	402.880
2029	0.04764	0.04085	0.14220	0.51794	0.00084	0.00154	0.17985	0.18138	0.00154	0.04338	0.04492	—	237.236	237.236	0.00226	0.01845	242.805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05817	0.05157	0.10648	0.67876	0.00037	0.00067	0.17231	0.17298	0.00067	0.04090	0.04157	—	203.163	203.163	0.00254	0.01212	207.115
2028	0.03841	0.03682	0.11338	0.46515	0.00060	0.00110	0.13450	0.13561	0.00110	0.03239	0.03349	—	183.138	183.138	0.00171	0.01401	187.570
2029	0.00803	0.00769	0.02437	0.09533	0.00014	0.00026	0.02969	0.02994	0.00026	0.00716	0.00741	—	40.1225	40.1225	0.00038	0.00307	41.0889

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.01062	0.00941	0.01943	0.12387	0.00007	0.00012	0.03145	0.03157	0.00012	0.00746	0.00759	—	33.6359	33.6359	0.00042	0.00201	34.2903
2028	0.00701	0.00672	0.02069	0.08489	0.00011	0.00020	0.02455	0.02475	0.00020	0.00591	0.00611	—	30.3205	30.3205	0.00028	0.00232	31.0543
2029	0.00147	0.00140	0.00445	0.01740	0.00003	0.00005	0.00542	0.00546	0.00005	0.00131	0.00135	—	6.64273	6.64273	0.00006	0.00051	6.80273

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.38164	5.37298	45.9621	49.9287	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,813.0	10,813.0	0.42512	0.09942	10,854.7
2028	22.3333	22.0629	14.9206	21.8489	0.03566	0.50261	0.34323	0.84584	0.46252	0.08168	0.54420	—	3,930.74	3,930.74	0.14582	0.05352	3,951.49
2029	21.3821	21.3391	1.58831	2.22431	0.00345	0.02568	0.00000	0.02568	0.02363	0.00000	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.36731	5.35793	45.9768	49.1667	0.09562	1.93191	9.33182	11.2637	1.77736	4.17350	5.95086	—	10,760.8	10,760.8	0.42655	0.10014	10,801.4
2028	19.5036	19.2388	14.9371	21.3235	0.03566	0.50261	0.34323	0.84584	0.46252	0.08168	0.54420	—	3,893.07	3,893.07	0.14635	0.05352	3,912.71
2029	21.3821	21.3391	9.32996	12.8354	0.02462	0.28617	0.17985	0.46601	0.26340	0.04338	0.30678	—	2,539.08	2,539.08	0.09563	0.03712	2,552.55
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.05816	1.72825	14.8410	16.7974	0.03203	0.58764	2.15655	2.74418	0.54068	0.95717	1.49785	—	3,509.20	3,509.20	0.13665	0.03894	3,524.49
2028	2.20837	2.04451	7.20557	9.72995	0.01823	0.23088	0.13450	0.36538	0.21250	0.03239	0.24489	—	1,890.11	1,890.11	0.07095	0.02786	1,900.40
2029	0.80569	0.76900	1.59618	2.20516	0.00419	0.04831	0.02969	0.07799	0.04446	0.00716	0.05162	—	430.328	430.328	0.01620	0.00623	432.633
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.37561	0.31541	2.70849	3.06552	0.00584	0.10724	0.39357	0.50081	0.09867	0.17468	0.27336	—	580.987	580.987	0.02262	0.00645	583.520
2028	0.40303	0.37312	1.31502	1.77572	0.00333	0.04214	0.02455	0.06668	0.03878	0.00591	0.04469	—	312.930	312.930	0.01175	0.00461	314.633
2029	0.14704	0.14034	0.29130	0.40244	0.00076	0.00882	0.00542	0.01423	0.00811	0.00131	0.00942	—	71.2457	71.2457	0.00268	0.00103	71.6274

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	8.90702	10.8389	1.77736	4.07393	5.85129	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
2028	22.2617	21.9990	14.7369	20.2141	0.03482	0.50107	0.00000	0.50107	0.46098	0.00000	0.46098	—	3,497.82	3,497.82	0.14189	0.02838	3,509.83
2029	21.3821	21.3391	1.58831	2.22431	0.00345	0.02568	0.00000	0.02568	0.02363	0.00000	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	8.90702	10.8389	1.77736	4.07393	5.85129	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
2028	19.4536	19.1909	14.7369	20.2141	0.03482	0.50107	0.00000	0.50107	0.46098	0.00000	0.46098	—	3,497.82	3,497.82	0.14189	0.02838	3,509.83
2029	21.3821	21.3391	9.18776	12.3175	0.02377	0.28463	0.00000	0.28463	0.26186	0.00000	0.26186	—	2,301.84	2,301.84	0.09337	0.01867	2,309.74
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.99998	1.67668	14.7346	16.1186	0.03166	0.58697	1.98423	2.57120	0.54001	0.91627	1.45628	—	3,306.03	3,306.03	0.13411	0.02682	3,317.38
2028	2.16996	2.00769	7.09220	9.26480	0.01762	0.22978	0.00000	0.22978	0.21140	0.00000	0.21140	—	1,706.97	1,706.97	0.06924	0.01385	1,712.83
2029	0.79766	0.76131	1.57181	2.10983	0.00405	0.04805	0.00000	0.04805	0.04421	0.00000	0.04421	—	390.205	390.205	0.01583	0.00317	391.545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.36500	0.30599	2.68906	2.94165	0.00578	0.10712	0.36212	0.46924	0.09855	0.16722	0.26577	—	547.351	547.351	0.02220	0.00444	549.230
2028	0.39602	0.36640	1.29433	1.69083	0.00322	0.04193	0.00000	0.04193	0.03858	0.00000	0.03858	—	282.609	282.609	0.01146	0.00229	283.579
2029	0.14557	0.13894	0.28686	0.38504	0.00074	0.00877	0.00000	0.00877	0.00807	0.00000	0.00807	—	64.6030	64.6030	0.00262	0.00052	64.8247

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.16300	0.14760	0.14868	2.31789	0.00084	0.00154	0.42481	0.42481	0.00154	0.09957	0.09957	—	456.670	456.670	0.00502	0.01922	462.807
2028	0.12117	0.10864	0.18369	1.63481	0.00084	0.00154	0.34323	0.34477	0.00154	0.08168	0.08322	—	432.911	432.911	0.00393	0.02514	441.660
2029	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.14867	0.13255	0.15952	1.55588	0.00084	0.00154	0.42481	0.42481	0.00154	0.09957	0.09957	—	404.468	404.468	0.00645	0.01955	409.471
2028	0.09988	0.09669	0.20019	1.10944	0.00084	0.00154	0.34323	0.34477	0.00154	0.08168	0.08322	—	395.246	395.246	0.00446	0.02514	402.880
2029	0.04764	0.04085	0.14220	0.51794	0.00084	0.00154	0.17985	0.18138	0.00154	0.04338	0.04492	—	237.236	237.236	0.00226	0.01845	242.805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05817	0.05157	0.10648	0.67876	0.00037	0.00067	0.17231	0.17298	0.00067	0.04090	0.04157	—	203.163	203.163	0.00254	0.01212	207.115
2028	0.03841	0.03682	0.11338	0.46515	0.00060	0.00110	0.13450	0.13561	0.00110	0.03239	0.03349	—	183.138	183.138	0.00171	0.01401	187.570
2029	0.00803	0.00769	0.02437	0.09533	0.00014	0.00026	0.02969	0.02994	0.00026	0.00716	0.00741	—	40.1225	40.1225	0.00038	0.00307	41.0889
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.01062	0.00941	0.01943	0.12387	0.00007	0.00012	0.03145	0.03157	0.00012	0.00746	0.00759	—	33.6359	33.6359	0.00042	0.00201	34.2903
2028	0.00701	0.00672	0.02069	0.08489	0.00011	0.00020	0.02455	0.02475	0.00020	0.00591	0.00611	—	30.3205	30.3205	0.00028	0.00232	31.0543
2029	0.00147	0.00140	0.00445	0.01740	0.00003	0.00005	0.00542	0.00546	0.00005	0.00131	0.00135	—	6.64273	6.64273	0.00006	0.00051	6.80273

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.56290	3.41726	1.72960	16.3043	0.03950	0.04853	3.40390	3.45243	0.04673	0.86246	0.90919	14.8295	4,541.06	4,555.89	1.64682	0.16044	4,655.42
Mit.	3.40947	3.27862	1.47679	16.1967	0.03789	0.02809	3.40390	3.43199	0.02629	0.86246	0.88875	14.8295	4,224.81	4,239.64	1.61871	0.15987	4,338.29

% Reduced	4%	4%	15%	1%	4%	42%	—	1%	44%	—	2%	—	7%	7%	2%	—	7%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.25437	3.11872	1.82844	11.0327	0.03607	0.04770	3.40390	3.45161	0.04611	0.86246	0.90857	14.8295	4,196.70	4,211.53	1.64981	0.16564	4,302.95
Mit.	3.10094	2.98008	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	14.8295	3,880.45	3,895.28	1.62170	0.16507	3,985.82
% Reduced	5%	4%	14%	1%	4%	43%	—	1%	44%	—	2%	—	8%	8%	2%	—	7%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.31437	3.17588	1.83984	12.5909	0.03608	0.04750	3.30184	3.34934	0.04584	0.83669	0.88253	14.8295	4,196.31	4,211.13	1.64881	0.16442	4,306.13
Mit.	3.16094	3.03724	1.58704	12.4833	0.03447	0.02706	3.30184	3.32890	0.02540	0.83669	0.86209	14.8295	3,880.05	3,894.88	1.62070	0.16385	3,989.00
% Reduced	5%	4%	14%	1%	4%	43%	—	1%	45%	—	2%	—	8%	8%	2%	—	7%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60487	0.57960	0.33577	2.29783	0.00659	0.00867	0.60258	0.61125	0.00837	0.15270	0.16106	2.45519	694.746	697.201	0.27298	0.02722	712.928
Mit.	0.57687	0.55430	0.28963	2.27820	0.00629	0.00494	0.60258	0.60752	0.00464	0.15270	0.15733	2.45519	642.387	644.842	0.26833	0.02713	660.424
% Reduced	5%	4%	14%	1%	4%	43%	—	1%	45%	—	2%	—	8%	8%	2%	< 0.5%	7%

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Area	2.02975	2.02091	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107
Energy	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	675.802	675.802	0.05041	0.00327	678.038

Joshua Tree Estates - Tentative Tract Map 20668 v2 Custom Report, 3/10/2026

Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.56290	3.41726	1.72960	16.3043	0.03950	0.04853	3.40390	3.45243	0.04673	0.86246	0.90919	14.8295	4,541.06	4,555.89	1.64682	0.16044	4,655.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22
Area	1.86341	1.86341	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	675.802	675.802	0.05041	0.00327	678.038
Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.25437	3.11872	1.82844	11.0327	0.03607	0.04770	3.40390	3.45161	0.04611	0.86246	0.90857	14.8295	4,196.70	4,211.53	1.64981	0.16564	4,302.95
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.33934	1.22001	1.57862	11.5856	0.03443	0.02665	3.30184	3.32848	0.02509	0.83669	0.86177	—	3,506.92	3,506.92	0.10882	0.15482	3,559.99
Area	1.94544	1.94108	0.00841	0.89767	0.00004	0.00041	—	0.00041	0.00031	—	0.00031	—	2.39375	2.39375	0.00010	0.00002	2.40217
Energy	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	675.802	675.802	0.05041	0.00327	678.038
Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.31437	3.17588	1.83984	12.5909	0.03608	0.04750	3.30184	3.34934	0.04584	0.83669	0.88253	14.8295	4,196.31	4,211.13	1.64881	0.16442	4,306.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397
Area	0.35504	0.35425	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771
Energy	0.00540	0.00270	0.04614	0.01963	0.00029	0.00373	—	0.00373	0.00373	—	0.00373	—	111.887	111.887	0.00835	0.00054	112.257
Water	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533
Waste	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09178
Total	0.60487	0.57960	0.33577	2.29783	0.00659	0.00867	0.60258	0.61125	0.00837	0.15270	0.16106	2.45519	694.746	697.201	0.27298	0.02722	712.928

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Area	1.90591	1.89706	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	359.547	359.547	0.02230	0.00270	360.910
Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.40947	3.27862	1.47679	16.1967	0.03789	0.02809	3.40390	3.43199	0.02629	0.86246	0.88875	14.8295	4,224.81	4,239.64	1.61871	0.15987	4,338.29
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22
Area	1.73956	1.73956	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	359.547	359.547	0.02230	0.00270	360.910
Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.10094	2.98008	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	14.8295	3,880.45	3,895.28	1.62170	0.16507	3,985.82
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.33934	1.22001	1.57862	11.5856	0.03443	0.02665	3.30184	3.32848	0.02509	0.83669	0.86177	—	3,506.92	3,506.92	0.10882	0.15482	3,559.99
Area	1.82159	1.81723	0.00841	0.89767	0.00004	0.00041	—	0.00041	0.00031	—	0.00031	—	2.39375	2.39375	0.00010	0.00002	2.40217

Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	359.547	359.547	0.02230	0.00270	360.910
Water	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Waste	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.55437
Total	3.16094	3.03724	1.58704	12.4833	0.03447	0.02706	3.30184	3.32890	0.02540	0.83669	0.86209	14.8295	3,880.05	3,894.88	1.62070	0.16385	3,989.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397
Area	0.33244	0.33164	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	59.5271	59.5271	0.00369	0.00045	59.7528
Water	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533
Waste	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09178
Total	0.57687	0.55430	0.28963	2.27820	0.00629	0.00494	0.60258	0.60752	0.00464	0.15270	0.15733	2.45519	642.387	644.842	0.26833	0.02713	660.424

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.73090	2.28917	20.5453	19.4366	0.03438	0.80456	—	0.80456	0.74019	—	0.74019	—	3,529.19	3,529.19	0.14316	0.02863	3,541.30

Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05986	0.05017	0.45031	0.42601	0.00075	0.01763	—	0.01763	0.01622	—	0.01622	—	77.3522	77.3522	0.00314	0.00063	77.6176
Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01092	0.00916	0.08218	0.07775	0.00014	0.00322	—	0.00322	0.00296	—	0.00296	—	12.8065	12.8065	0.00052	0.00010	12.8505
Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06862	0.06118	0.06597	0.71810	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	186.678	186.678	0.00298	0.00744	188.986
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00150	0.00134	0.00158	0.01761	0.00000	0.00000	0.00426	0.00426	0.00000	0.00100	0.00100	—	4.21181	4.21181	0.00007	0.00016	4.26825
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00027	0.00024	0.00029	0.00321	0.00000	0.00000	0.00078	0.00078	0.00000	0.00018	0.00018	—	0.69731	0.69731	0.00001	0.00003	0.70666
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.73090	2.28917	20.5453	19.4366	0.03438	0.80456	—	0.80456	0.74019	—	0.74019	—	3,529.19	3,529.19	0.14316	0.02863	3,541.30
Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05986	0.05017	0.45031	0.42601	0.00075	0.01763	—	0.01763	0.01622	—	0.01622	—	77.3522	77.3522	0.00314	0.00063	77.6176
Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01092	0.00916	0.08218	0.07775	0.00014	0.00322	—	0.00322	0.00296	—	0.00296	—	12.8065	12.8065	0.00052	0.00010	12.8505
Demolition	—	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06862	0.06118	0.06597	0.71810	0.00000	0.00000	0.19606	0.19606	0.00000	0.04596	0.04596	—	186.678	186.678	0.00298	0.00744	188.986
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00150	0.00134	0.00158	0.01761	0.00000	0.00000	0.00426	0.00426	0.00000	0.00100	0.00100	—	4.21181	4.21181	0.00007	0.00016	4.26825
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00027	0.00024	0.00029	0.00321	0.00000	0.00000	0.00078	0.00078	0.00000	0.00018	0.00018	—	0.69731	0.69731	0.00001	0.00003	0.70666
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.34413	1.96972	17.9878	17.5786	0.03082	0.76127	—	0.76127	0.70037	—	0.70037	—	3,338.34	3,338.34	0.13542	0.02708	3,349.79
Dust From Material Movement	—	—	—	—	—	—	5.11082	5.11082	—	2.62664	2.62664	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07065	0.05936	0.54210	0.52977	0.00093	0.02294	—	0.02294	0.02111	—	0.02111	—	100.607	100.607	0.00408	0.00082	100.953
Dust From Material Movement	—	—	—	—	—	—	0.15402	0.15402	—	0.07916	0.07916	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01289	0.01083	0.09893	0.09668	0.00017	0.00419	—	0.00419	0.00385	—	0.00385	—	16.6567	16.6567	0.00068	0.00014	16.7139
Dust From Material Movement	—	—	—	—	—	—	0.02811	0.02811	—	0.01445	0.01445	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
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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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04575	0.04079	0.04398	0.47873	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	124.452	124.452	0.00198	0.00496	125.991
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00138	0.00123	0.00145	0.01615	0.00000	0.00000	0.00391	0.00391	0.00000	0.00092	0.00092	—	3.86082	3.86082	0.00006	0.00015	3.91256
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00025	0.00022	0.00026	0.00295	0.00000	0.00000	0.00071	0.00071	0.00000	0.00017	0.00017	—	0.63920	0.63920	0.00001	0.00002	0.64777
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.34413	1.96972	17.9878	17.5786	0.03082	0.76127	—	0.76127	0.70037	—	0.70037	—	3,338.34	3,338.34	0.13542	0.02708	3,349.79
Dust From Material Movement	—	—	—	—	—	—	5.11082	5.11082	—	2.62664	2.62664	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07065	0.05936	0.54210	0.52977	0.00093	0.02294	—	0.02294	0.02111	—	0.02111	—	100.607	100.607	0.00408	0.00082	100.953
Dust From Material Movement	—	—	—	—	—	—	0.15402	0.15402	—	0.07916	0.07916	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01289	0.01083	0.09893	0.09668	0.00017	0.00419	—	0.00419	0.00385	—	0.00385	—	16.6567	16.6567	0.00068	0.00014	16.7139
Dust From Material Movement	—	—	—	—	—	—	0.02811	0.02811	—	0.01445	0.01445	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04575	0.04079	0.04398	0.47873	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	124.452	124.452	0.00198	0.00496	125.991
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00138	0.00123	0.00145	0.01615	0.00000	0.00000	0.00391	0.00391	0.00000	0.00092	0.00092	—	3.86082	3.86082	0.00006	0.00015	3.91256
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00025	0.00022	0.00026	0.00295	0.00000	0.00000	0.00071	0.00071	0.00000	0.00017	0.00017	—	0.63920	0.63920	0.00001	0.00002	0.64777
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	—	1.93191	1.77736	—	1.77736	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9

Dust From Material Movement	—	—	—	—	—	—	8.90702	8.90702	—	4.07393	4.07393	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	—	1.93191	1.77736	—	1.77736	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
Dust From Material Movement	—	—	—	—	—	—	8.90702	8.90702	—	4.07393	4.07393	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27780	1.07371	9.41792	9.78304	0.01965	0.39697	—	0.39697	0.36521	—	0.36521	—	2,128.02	2,128.02	0.08632	0.01726	2,135.33
Dust From Material Movement	—	—	—	—	—	—	1.83021	1.83021	—	0.83711	0.83711	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23320	0.19595	1.71877	1.78541	0.00359	0.07245	—	0.07245	0.06665	—	0.06665	—	352.318	352.318	0.01429	0.00286	353.528
Dust From Material Movement	—	—	—	—	—	—	0.33401	0.33401	—	0.15277	0.15277	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16300	0.14760	0.12825	2.31789	0.00000	0.00000	0.42481	0.42481	0.00000	0.09957	0.09957	—	456.670	456.670	0.00502	0.01540	462.807
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14867	0.13255	0.14294	1.55588	0.00000	0.00000	0.42481	0.42481	0.00000	0.09957	0.09957	—	404.468	404.468	0.00645	0.01612	409.471
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03055	0.02724	0.03210	0.35776	0.00000	0.00000	0.08660	0.08660	0.00000	0.02029	0.02029	—	85.5524	85.5524	0.00133	0.00331	86.6988
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00558	0.00497	0.00586	0.06529	0.00000	0.00000	0.01581	0.01581	0.00000	0.00370	0.00370	—	14.1642	14.1642	0.00022	0.00055	14.3540
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	—	1.93191	1.77736	—	1.77736	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
Dust From Material Movement	—	—	—	—	—	—	8.90702	8.90702	—	4.07393	4.07393	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.21863	5.22538	45.8339	47.6108	0.09562	1.93191	—	1.93191	1.77736	—	1.77736	—	10,356.4	10,356.4	0.42010	0.08402	10,391.9
Dust From Material Movement	—	—	—	—	—	—	8.90702	8.90702	—	4.07393	4.07393	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27780	1.07371	9.41792	9.78304	0.01965	0.39697	—	0.39697	0.36521	—	0.36521	—	2,128.02	2,128.02	0.08632	0.01726	2,135.33
Dust From Material Movement	—	—	—	—	—	—	1.83021	1.83021	—	0.83711	0.83711	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23320	0.19595	1.71877	1.78541	0.00359	0.07245	—	0.07245	0.06665	—	0.06665	—	352.318	352.318	0.01429	0.00286	353.528

Dust From Material Movement	—	—	—	—	—	—	0.33401	0.33401	—	0.15277	0.15277	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16300	0.14760	0.12825	2.31789	0.00000	0.00000	0.42481	0.42481	0.00000	0.09957	0.09957	—	456.670	456.670	0.00502	0.01540	462.807
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14867	0.13255	0.14294	1.55588	0.00000	0.00000	0.42481	0.42481	0.00000	0.09957	0.09957	—	404.468	404.468	0.00645	0.01612	409.471
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03055	0.02724	0.03210	0.35776	0.00000	0.00000	0.08660	0.08660	0.00000	0.02029	0.02029	—	85.5524	85.5524	0.00133	0.00331	86.6988
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00558	0.00497	0.00586	0.06529	0.00000	0.00000	0.01581	0.01581	0.00000	0.00370	0.00370	—	14.1642	14.1642	0.00022	0.00055	14.3540
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction- P1 (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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36194	1.13580	9.95351	12.3832	0.02377	0.34395	—	0.34395	0.31643	—	0.31643	—	2,301.92	2,301.92	0.09338	0.01868	2,309.82
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36194	1.13580	9.95351	12.3832	0.02377	0.34395	—	0.34395	0.31643	—	0.31643	—	2,301.92	2,301.92	0.09338	0.01868	2,309.82
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59168	0.49344	4.32422	5.37980	0.01033	0.14942	—	0.14942	0.13747	—	0.13747	—	1,000.05	1,000.05	0.04057	0.00811	1,003.48
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10798	0.09005	0.78917	0.98181	0.00188	0.02727	—	0.02727	0.02509	—	0.02509	—	165.570	165.570	0.00672	0.00134	166.138
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05778	0.05232	0.04546	0.82160	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	161.872	161.872	0.00178	0.00546	164.047
Vendor	0.00456	0.00333	0.10321	0.04297	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	104.503	104.503	0.00023	0.01376	108.849
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05270	0.04698	0.05067	0.55150	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	143.369	143.369	0.00229	0.00571	145.142
Vendor	0.00410	0.00296	0.10886	0.04463	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	104.621	104.621	0.00023	0.01383	108.754
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02289	0.02041	0.02405	0.26812	0.00000	0.00000	0.06490	0.06490	0.00000	0.01521	0.01521	—	64.1158	64.1158	0.00099	0.00248	64.9750
Vendor	0.00185	0.00135	0.04730	0.01913	0.00037	0.00067	0.01263	0.01330	0.00067	0.00349	0.00416	—	45.4221	45.4221	0.00010	0.00601	47.2604
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00418	0.00373	0.00439	0.04893	0.00000	0.00000	0.01185	0.01185	0.00000	0.00278	0.00278	—	10.6151	10.6151	0.00016	0.00041	10.7573
Vendor	0.00034	0.00025	0.00863	0.00349	0.00007	0.00012	0.00231	0.00243	0.00012	0.00064	0.00076	—	7.52015	7.52015	0.00002	0.00099	7.82450
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36194	1.13580	9.95351	12.3832	0.02377	0.34395	—	0.34395	0.31643	—	0.31643	—	2,301.92	2,301.92	0.09338	0.01868	2,309.82

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36194	1.13580	9.95351	12.3832	0.02377	0.34395	—	0.34395	0.31643	—	0.31643	—	2,301.92	2,301.92	0.09338	0.01868	2,309.82
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59168	0.49344	4.32422	5.37980	0.01033	0.14942	—	0.14942	0.13747	—	0.13747	—	1,000.05	1,000.05	0.04057	0.00811	1,003.48
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10798	0.09005	0.78917	0.98181	0.00188	0.02727	—	0.02727	0.02509	—	0.02509	—	165.570	165.570	0.00672	0.00134	166.138
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05778	0.05232	0.04546	0.82160	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	161.872	161.872	0.00178	0.00546	164.047
Vendor	0.00456	0.00333	0.10321	0.04297	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	104.503	104.503	0.00023	0.01376	108.849
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05270	0.04698	0.05067	0.55150	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	143.369	143.369	0.00229	0.00571	145.142
Vendor	0.00410	0.00296	0.10886	0.04463	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	104.621	104.621	0.00023	0.01383	108.754
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02289	0.02041	0.02405	0.26812	0.00000	0.00000	0.06490	0.06490	0.00000	0.01521	0.01521	—	64.1158	64.1158	0.00099	0.00248	64.9750
Vendor	0.00185	0.00135	0.04730	0.01913	0.00037	0.00067	0.01263	0.01330	0.00067	0.00349	0.00416	—	45.4221	45.4221	0.00010	0.00601	47.2604
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00418	0.00373	0.00439	0.04893	0.00000	0.00000	0.01185	0.01185	0.00000	0.00278	0.00278	—	10.6151	10.6151	0.00016	0.00041	10.7573
Vendor	0.00034	0.00025	0.00863	0.00349	0.00007	0.00012	0.00231	0.00243	0.00012	0.00064	0.00076	—	7.52015	7.52015	0.00002	0.00099	7.82450
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction- P1 (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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31100	1.09333	9.51231	12.3653	0.02378	0.30878	—	0.30878	0.28408	—	0.28408	—	2,302.34	2,302.34	0.09339	0.01868	2,310.24
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31100	1.09333	9.51231	12.3653	0.02378	0.30878	—	0.30878	0.28408	—	0.28408	—	2,302.34	2,302.34	0.09339	0.01868	2,310.24
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93899	0.78309	6.81312	8.85658	0.01703	0.22116	—	0.22116	0.20347	—	0.20347	—	1,649.03	1,649.03	0.06689	0.01338	1,654.69
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17137	0.14291	1.24340	1.61633	0.00311	0.04036	—	0.04036	0.03713	—	0.03713	—	273.016	273.016	0.01107	0.00221	273.953
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05600	0.05054	0.04025	0.76433	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	158.799	158.799	0.00178	0.00546	160.925
Vendor	0.00440	0.00326	0.09976	0.04113	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	101.803	101.803	0.00023	0.01376	106.122
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04597	0.04495	0.04546	0.51201	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	140.679	140.679	0.00203	0.00546	142.369
Vendor	0.00403	0.00296	0.10540	0.04187	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	101.921	101.921	0.00023	0.01376	106.031
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03329	0.03256	0.03611	0.41002	0.00000	0.00000	0.10700	0.10700	0.00000	0.02507	0.02507	—	103.717	103.717	0.00146	0.00391	105.060
Vendor	0.00305	0.00223	0.07502	0.02956	0.00060	0.00110	0.02082	0.02193	0.00110	0.00576	0.00686	—	72.9515	72.9515	0.00016	0.00985	75.9575
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00608	0.00594	0.00659	0.07483	0.00000	0.00000	0.01953	0.01953	0.00000	0.00458	0.00458	—	17.1716	17.1716	0.00024	0.00065	17.3938
Vendor	0.00056	0.00041	0.01369	0.00539	0.00011	0.00020	0.00380	0.00400	0.00020	0.00105	0.00125	—	12.0780	12.0780	0.00003	0.00163	12.5756
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31100	1.09333	9.51231	12.3653	0.02378	0.30878	—	0.30878	0.28408	—	0.28408	—	2,302.34	2,302.34	0.09339	0.01868	2,310.24
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31100	1.09333	9.51231	12.3653	0.02378	0.30878	—	0.30878	0.28408	—	0.28408	—	2,302.34	2,302.34	0.09339	0.01868	2,310.24
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93899	0.78309	6.81312	8.85658	0.01703	0.22116	—	0.22116	0.20347	—	0.20347	—	1,649.03	1,649.03	0.06689	0.01338	1,654.69
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17137	0.14291	1.24340	1.61633	0.00311	0.04036	—	0.04036	0.03713	—	0.03713	—	273.016	273.016	0.01107	0.00221	273.953
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05600	0.05054	0.04025	0.76433	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	158.799	158.799	0.00178	0.00546	160.925
Vendor	0.00440	0.00326	0.09976	0.04113	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	101.803	101.803	0.00023	0.01376	106.122
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04597	0.04495	0.04546	0.51201	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	140.679	140.679	0.00203	0.00546	142.369
Vendor	0.00403	0.00296	0.10540	0.04187	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	101.921	101.921	0.00023	0.01376	106.031
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03329	0.03256	0.03611	0.41002	0.00000	0.00000	0.10700	0.10700	0.00000	0.02507	0.02507	—	103.717	103.717	0.00146	0.00391	105.060
Vendor	0.00305	0.00223	0.07502	0.02956	0.00060	0.00110	0.02082	0.02193	0.00110	0.00576	0.00686	—	72.9515	72.9515	0.00016	0.00985	75.9575
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00608	0.00594	0.00659	0.07483	0.00000	0.00000	0.01953	0.01953	0.00000	0.00458	0.00458	—	17.1716	17.1716	0.00024	0.00065	17.3938
Vendor	0.00056	0.00041	0.01369	0.00539	0.00011	0.00020	0.00380	0.00400	0.00020	0.00105	0.00125	—	12.0780	12.0780	0.00003	0.00163	12.5756
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Building Construction- P1 (2029)

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27359	1.06216	9.18776	12.3175	0.02377	0.28463	—	0.28463	0.26186	—	0.26186	—	2,301.84	2,301.84	0.09337	0.01867	2,309.74
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21185	0.17668	1.52830	2.04889	0.00395	0.04735	—	0.04735	0.04356	—	0.04356	—	382.890	382.890	0.01553	0.00311	384.204
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03866	0.03224	0.27891	0.37392	0.00072	0.00864	—	0.00864	0.00795	—	0.00795	—	63.3918	63.3918	0.00257	0.00051	63.6093
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04368	0.03797	0.04025	0.47721	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	138.161	138.161	0.00203	0.00546	139.849
Vendor	0.00395	0.00288	0.10195	0.04072	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	99.0750	99.0750	0.00023	0.01299	102.956
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00735	0.00718	0.00752	0.08865	0.00000	0.00000	0.02485	0.02485	0.00000	0.00582	0.00582	—	23.6535	23.6535	0.00034	0.00091	23.9618
Vendor	0.00068	0.00050	0.01685	0.00667	0.00014	0.00026	0.00484	0.00509	0.00026	0.00134	0.00159	—	16.4690	16.4690	0.00004	0.00216	17.1271
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00134	0.00131	0.00137	0.01618	0.00000	0.00000	0.00454	0.00454	0.00000	0.00106	0.00106	—	3.91611	3.91611	0.00006	0.00015	3.96715
Vendor	0.00012	0.00009	0.00307	0.00122	0.00003	0.00005	0.00088	0.00093	0.00005	0.00024	0.00029	—	2.72663	2.72663	0.00001	0.00036	2.83558
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27359	1.06216	9.18776	12.3175	0.02377	0.28463	—	0.28463	0.26186	—	0.26186	—	2,301.84	2,301.84	0.09337	0.01867	2,309.74
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21185	0.17668	1.52830	2.04889	0.00395	0.04735	—	0.04735	0.04356	—	0.04356	—	382.890	382.890	0.01553	0.00311	384.204
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03866	0.03224	0.27891	0.37392	0.00072	0.00864	—	0.00864	0.00795	—	0.00795	—	63.3918	63.3918	0.00257	0.00051	63.6093

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
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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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04368	0.03797	0.04025	0.47721	0.00000	0.00000	0.15058	0.15058	0.00000	0.03530	0.03530	—	138.161	138.161	0.00203	0.00546	139.849
Vendor	0.00395	0.00288	0.10195	0.04072	0.00084	0.00154	0.02927	0.03081	0.00154	0.00809	0.00962	—	99.0750	99.0750	0.00023	0.01299	102.956
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00735	0.00718	0.00752	0.08865	0.00000	0.00000	0.02485	0.02485	0.00000	0.00582	0.00582	—	23.6535	23.6535	0.00034	0.00091	23.9618
Vendor	0.00068	0.00050	0.01685	0.00667	0.00014	0.00026	0.00484	0.00509	0.00026	0.00134	0.00159	—	16.4690	16.4690	0.00004	0.00216	17.1271
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00134	0.00131	0.00137	0.01618	0.00000	0.00000	0.00454	0.00454	0.00000	0.00106	0.00106	—	3.91611	3.91611	0.00006	0.00015	3.96715
Vendor	0.00012	0.00009	0.00307	0.00122	0.00003	0.00005	0.00088	0.00093	0.00005	0.00024	0.00029	—	2.72663	2.72663	0.00001	0.00036	2.83558
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Paving (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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66135	0.55572	5.22455	7.84873	0.01104	0.19229	—	0.19229	0.17690	—	0.17690	—	1,195.49	1,195.49	0.04849	0.00970	1,199.59
Paving	2.21692	2.21692	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66135	0.55572	5.22455	7.84873	0.01104	0.19229	—	0.19229	0.17690	—	0.17690	—	1,195.49	1,195.49	0.04849	0.00970	1,199.59
Paving	2.21692	2.21692	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02355	0.01979	0.18608	0.27954	0.00039	0.00685	—	0.00685	0.00630	—	0.00630	—	42.5790	42.5790	0.00173	0.00035	42.7251
Paving	0.07896	0.07896	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00430	0.00361	0.03396	0.05102	0.00007	0.00125	—	0.00125	0.00115	—	0.00115	—	7.04944	7.04944	0.00029	0.00006	7.07363
Paving	0.01441	0.01441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06076	0.05484	0.04368	0.82935	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	172.308	172.308	0.00193	0.00592	174.614
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04988	0.04878	0.04933	0.55556	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	152.647	152.647	0.00220	0.00592	154.480
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00180	0.00176	0.00195	0.02212	0.00000	0.00000	0.00577	0.00577	0.00000	0.00135	0.00135	—	5.59627	5.59627	0.00008	0.00021	5.66870
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00032	0.00036	0.00404	0.00000	0.00000	0.00105	0.00105	0.00000	0.00025	0.00025	—	0.92653	0.92653	0.00001	0.00003	0.93852
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66135	0.55572	5.22455	7.84873	0.01104	0.19229	—	0.19229	0.17690	—	0.17690	—	1,195.49	1,195.49	0.04849	0.00970	1,199.59
Paving	2.21692	2.21692	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66135	0.55572	5.22455	7.84873	0.01104	0.19229	—	0.19229	0.17690	—	0.17690	—	1,195.49	1,195.49	0.04849	0.00970	1,199.59
Paving	2.21692	2.21692	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02355	0.01979	0.18608	0.27954	0.00039	0.00685	—	0.00685	0.00630	—	0.00630	—	42.5790	42.5790	0.00173	0.00035	42.7251
Paving	0.07896	0.07896	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00430	0.00361	0.03396	0.05102	0.00007	0.00125	—	0.00125	0.00115	—	0.00115	—	7.04944	7.04944	0.00029	0.00006	7.07363
Paving	0.01441	0.01441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06076	0.05484	0.04368	0.82935	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	172.308	172.308	0.00193	0.00592	174.614
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04988	0.04878	0.04933	0.55556	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	152.647	152.647	0.00220	0.00592	154.480
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00180	0.00176	0.00195	0.02212	0.00000	0.00000	0.00577	0.00577	0.00000	0.00135	0.00135	—	5.59627	5.59627	0.00008	0.00021	5.66870
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00032	0.00036	0.00404	0.00000	0.00000	0.00105	0.00105	0.00000	0.00025	0.00025	—	0.92653	0.92653	0.00001	0.00003	0.93852
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Architectural Coating-1 (2028)

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architect ural Coatings	20.6910	20.6910	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00783	0.00647	0.04871	0.06741	0.00010	0.00093	—	0.00093	0.00085	—	0.00085	—	8.04760	8.04760	0.00033	0.00007	8.07522
Architectural Coatings	0.62356	0.62356	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00143	0.00118	0.00889	0.01230	0.00002	0.00017	—	0.00017	0.00016	—	0.00016	—	1.33237	1.33237	0.00005	0.00001	1.33694
Architectural Coatings	0.11380	0.11380	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01120	0.01011	0.00805	0.15287	0.00000	0.00000	0.03012	0.03012	0.00000	0.00706	0.00706	—	31.7599	31.7599	0.00036	0.00109	32.1849
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00028	0.00027	0.00030	0.00345	0.00000	0.00000	0.00090	0.00090	0.00000	0.00021	0.00021	—	0.87281	0.87281	0.00001	0.00003	0.88411
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00005	0.00005	0.00006	0.00063	0.00000	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.14450	0.14450	< 0.000005	0.00001	0.14637
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architectural Coatings	20.6910	20.6910	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00783	0.00647	0.04871	0.06741	0.00010	0.00093	—	0.00093	0.00085	—	0.00085	—	8.04760	8.04760	0.00033	0.00007	8.07522

Architectural Coatings	0.62356	0.62356	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00143	0.00118	0.00889	0.01230	0.00002	0.00017	—	0.00017	0.00016	—	0.00016	—	1.33237	1.33237	0.00005	0.00001	1.33694
Architectural Coatings	0.11380	0.11380	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01120	0.01011	0.00805	0.15287	0.00000	0.00000	0.03012	0.03012	0.00000	0.00706	0.00706	—	31.7599	31.7599	0.00036	0.00109	32.1849
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00028	0.00027	0.00030	0.00345	0.00000	0.00000	0.00090	0.00090	0.00000	0.00021	0.00021	—	0.87281	0.87281	0.00001	0.00003	0.88411
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00005	0.00005	0.00006	0.00063	0.00000	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.14450	0.14450	< 0.000005	0.00001	0.14637
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Architectural Coating-2 (2028)

3.9.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architect ural Coatings	17.8829	17.8829	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architect ural Coatings	17.8829	17.8829	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00711	0.00588	0.04428	0.06128	0.00009	0.00084	—	0.00084	0.00077	—	0.00077	—	7.31600	7.31600	0.00030	0.00006	7.34111

Architect Coatings	0.48994	0.48994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00130	0.00107	0.00808	0.01118	0.00002	0.00015	—	0.00015	0.00014	—	0.00014	—	1.21125	1.21125	0.00005	0.00001	1.21540
Architect ural Coatings	0.08941	0.08941	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.3. Onsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architectural Coatings	17.8829	17.8829	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25969	0.21462	1.61628	2.23666	0.00345	0.03071	—	0.03071	0.02826	—	0.02826	—	267.034	267.034	0.01083	0.00217	267.950
Architectural Coatings	17.8829	17.8829	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00711	0.00588	0.04428	0.06128	0.00009	0.00084	—	0.00084	0.00077	—	0.00077	—	7.31600	7.31600	0.00030	0.00006	7.34111

Architect Coatings	0.48994	0.48994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00130	0.00107	0.00808	0.01118	0.00002	0.00015	—	0.00015	0.00014	—	0.00014	—	1.21125	1.21125	0.00005	0.00001	1.21540
Architect ural Coatings	0.08941	0.08941	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.4. Offsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.10. Architectural Coating-3 (2029)

3.10.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24770	0.20471	1.58831	2.22431	0.00345	0.02568	—	0.02568	0.02363	—	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Architect ural Coatings	21.1344	21.1344	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24770	0.20471	1.58831	2.22431	0.00345	0.02568	—	0.02568	0.02363	—	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Architect ural Coatings	21.1344	21.1344	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00679	0.00561	0.04352	0.06094	0.00009	0.00070	—	0.00070	0.00065	—	0.00065	—	7.31560	7.31560	0.00030	0.00006	7.34070
Architectural Coatings	0.57902	0.57902	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00124	0.00102	0.00794	0.01112	0.00002	0.00013	—	0.00013	0.00012	—	0.00012	—	1.21118	1.21118	0.00005	0.00001	1.21534
Architectural Coatings	0.10567	0.10567	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.3. Onsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24770	0.20471	1.58831	2.22431	0.00345	0.02568	—	0.02568	0.02363	—	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Architectural Coatings	21.1344	21.1344	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24770	0.20471	1.58831	2.22431	0.00345	0.02568	—	0.02568	0.02363	—	0.02363	—	267.019	267.019	0.01083	0.00217	267.936
Architectural Coatings	21.1344	21.1344	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00679	0.00561	0.04352	0.06094	0.00009	0.00070	—	0.00070	0.00065	—	0.00065	—	7.31560	7.31560	0.00030	0.00006	7.34070
Architectural Coatings	0.57902	0.57902	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00124	0.00102	0.00794	0.01112	0.00002	0.00013	—	0.00013	0.00012	—	0.00012	—	1.21118	1.21118	0.00005	0.00001	1.21534
Architectural Coatings	0.10567	0.10567	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.4. Offsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	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	0.00000	0.00000	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22

Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Single Family Housing	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397	
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	
Total	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397	

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.50357	1.38156	1.45973	14.3764	0.03781	0.02725	3.40390	3.43116	0.02566	0.86246	0.88812	—	3,849.21	3,849.21	0.10673	0.15082	3,906.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22

Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	1.36139	1.24052	1.57563	10.9251	0.03445	0.02726	3.40390	3.43117	0.02567	0.86246	0.88813	—	3,509.71	3,509.71	0.10992	0.15605	3,559.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.24443	0.22265	0.28810	2.11437	0.00628	0.00486	0.60258	0.60745	0.00458	0.15270	0.15727	—	580.610	580.610	0.01802	0.02563	589.397

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	354.910	354.910	0.02202	0.00267	356.255
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	354.910	354.910	0.02202	0.00267	356.255
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	354.910	354.910	0.02202	0.00267	356.255

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	354.910	354.910	0.02202	0.00267	356.255
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	58.7594	58.7594	0.00364	0.00044	58.9821
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.7594	58.7594	0.00364	0.00044	58.9821

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	359.547	359.547	0.02230	0.00270	360.910
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	359.547	359.547	0.02230	0.00270	360.910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	359.547	359.547	0.02230	0.00270	360.910

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	359.547	359.547	0.02230	0.00270	360.910
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5271	59.5271	0.00369	0.00045	59.7528
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5271	59.5271	0.00369	0.00045	59.7528

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	320.893	320.893	0.02840	0.00060	321.783
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	320.893	320.893	0.02840	0.00060	321.783
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	320.893	320.893	0.02840	0.00060	321.783

Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.02958	0.01479	0.25281	0.10758	0.00161	0.02044	—	0.02044	0.02044	—	0.02044	—	320.893	320.893	0.02840	0.00060	321.783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00540	0.00270	0.04614	0.01963	0.00029	0.00373	—	0.00373	0.00373	—	0.00373	—	53.1274	53.1274	0.00470	0.00010	53.2748
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00540	0.00270	0.04614	0.01963	0.00029	0.00373	—	0.00373	0.00373	—	0.00373	—	53.1274	53.1274	0.00470	0.00010	53.2748

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	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	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	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	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	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	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.69415	1.69415	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16925	0.16925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16635	0.15750	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107
Total	2.02975	2.02091	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	1.69415	1.69415	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.16925	0.16925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.86341	1.86341	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	0.30918	0.30918	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.03089	0.03089	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.01497	0.01417	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771
Total	0.35504	0.35425	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	1.57030	1.57030	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.16925	0.16925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.16635	0.15750	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107

Total	1.90591	1.89706	0.01706	1.82028	0.00008	0.00084	—	0.00084	0.00063	—	0.00063	—	4.85399	4.85399	0.00020	0.00004	4.87107
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.57030	1.57030	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16925	0.16925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.73956	1.73956	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.28658	0.28658	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03089	0.03089	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01497	0.01417	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771
Total	0.33244	0.33164	0.00154	0.16383	0.00001	0.00008	—	0.00008	0.00006	—	0.00006	—	0.39631	0.39631	0.00002	< 0.000005	0.39771

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.55587	11.1934	13.7493	0.26277	0.00631	22.1992
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.42315	1.85320	2.27635	0.04350	0.00104	3.67533

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	12.2736	0.00000	12.2736	1.22671	0.00000	42.9413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	2.03204	0.00000	2.03204	0.20310	0.00000	7.10942

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	1/4/2027	1/13/2027	5.00000	8.00000	—
Site Preparation	Site Preparation	1/14/2027	1/28/2027	5.00000	11.0000	—
Grading	Grading	2/1/2027	5/14/2027	5.00000	75.0000	—

Building Construction- P1	Building Construction	5/24/2027	3/26/2029	5.00000	481.000	—
Paving	Paving	3/22/2028	4/7/2028	5.00000	13.0000	—
Architectural Coating-1	Architectural Coating	4/10/2028	4/24/2028	5.00000	11.0000	Phase 1
Architectural Coating-2	Architectural Coating	9/25/2028	10/6/2028	5.00000	10.00000	Phase2
Architectural Coating-3	Architectural Coating	3/27/2029	4/9/2029	5.00000	10.00000	Phase 3

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	2.00000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	2.00000	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	2.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	2.00000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction-P1	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction-P1	Forklifts	Diesel	Average	2.00000	8.00000	82.0000	0.20000
Building Construction-P1	Generator Sets	Diesel	Average	2.00000	8.00000	14.0000	0.74000
Building Construction-P1	Tractors/Loaders/Back hoes	Diesel	Average	2.00000	7.00000	84.0000	0.37000

Building Construction-P1	Welders	Diesel	Average	2.00000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	1.000000	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-1	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000
Architectural Coating-2	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000
Architectural Coating-3	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000

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	2.00000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	2.00000	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	2.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	2.00000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00000	8.00000	84.0000	0.37000
Building Construction-P1	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction-P1	Forklifts	Diesel	Average	2.00000	8.00000	82.0000	0.20000

Building Construction-P1	Generator Sets	Diesel	Average	2.00000	8.00000	14.0000	0.74000
Building Construction-P1	Tractors/Loaders/Back hoes	Diesel	Average	2.00000	7.00000	84.0000	0.37000
Building Construction-P1	Welders	Diesel	Average	2.00000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	1.000000	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-1	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000
Architectural Coating-2	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000
Architectural Coating-3	Air Compressors	Diesel	Average	2.00000	6.00000	37.0000	0.48000

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	0.00000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	10.00000	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	32.5000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT

Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction- P1	Worker	11.5200	18.5000	LDA,LDT1,LDT2
Building Construction- P1	Vendor	3.42080	10.2000	HHDT,MHDT
Building Construction- P1	Hauling	0.00000	20.0000	HHDT
Building Construction- P1	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating-1	Worker	2.30400	18.5000	LDA,LDT1,LDT2
Architectural Coating-1	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-1	Hauling	0.00000	20.0000	HHDT
Architectural Coating-1	Onsite truck	—	—	HHDT
Architectural Coating-2	Worker	—	18.5000	LDA,LDT1,LDT2
Architectural Coating-2	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-2	Hauling	0.00000	20.0000	HHDT
Architectural Coating-2	Onsite truck	—	—	HHDT
Architectural Coating-3	Worker	—	18.5000	LDA,LDT1,LDT2
Architectural Coating-3	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-3	Hauling	0.00000	20.0000	HHDT
Architectural Coating-3	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	0.00000	20.0000	HHDT

Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	10.00000	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	32.5000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction- P1	Worker	11.5200	18.5000	LDA,LDT1,LDT2
Building Construction- P1	Vendor	3.42080	10.2000	HHDT,MHDT
Building Construction- P1	Hauling	0.00000	20.0000	HHDT
Building Construction- P1	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating-1	Worker	2.30400	18.5000	LDA,LDT1,LDT2
Architectural Coating-1	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-1	Hauling	0.00000	20.0000	HHDT
Architectural Coating-1	Onsite truck	—	—	HHDT
Architectural Coating-2	Worker	—	18.5000	LDA,LDT1,LDT2
Architectural Coating-2	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-2	Hauling	0.00000	20.0000	HHDT
Architectural Coating-2	Onsite truck	—	—	HHDT
Architectural Coating-3	Worker	—	18.5000	LDA,LDT1,LDT2
Architectural Coating-3	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating-3	Hauling	0.00000	20.0000	HHDT

Architectural Coating-3	Onsite truck	—	—	HHDT
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5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

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	57,748.2	19,249.4	0.00000	0.00000	10,592.0
Architectural Coating-2	45,373.6	15,124.5	0.00000	0.00000	8,322.25
Architectural Coating-3	53,623.3	17,874.4	0.00000	0.00000	9,835.39

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	—	0.00000
Site Preparation	0.00000	0.00000	11.0000	0.00000	0.00000
Grading	0.00000	0.00000	70.2000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	11.3526

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Single Family Housing	0.35262	0%
Paving	Other Asphalt Surfaces	11.0000	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	531.983	0.03300	0.00400
2028	0.00000	531.983	0.03300	0.00400
2029	0.00000	531.983	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	302.080	305.280	273.600	108,941	4,775.84	4,826.43	4,325.58	1,722,342
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
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Single Family Housing	302.080	305.280	273.600	108,941	4,775.84	4,826.43	4,325.58	1,722,342
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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	243,508	531.983	0.0330	0.0040	1,001,271
Other Asphalt Surfaces	0.00000	531.983	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	246,689	531.983	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	531.983	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	1,333,798	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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Single Family Housing	1,333,798	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	22.7737	0.00000
Other Asphalt Surfaces	0.00000	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22.7737	0.00000
Other Asphalt Surfaces	0.00000	0.00000

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Project acreage is 81.2 gross and 70.2 net with 11 acres dedicated to rights-of-way. Land Use is a residential subdivision and the construction and operation of 32 single-family residential homes. Based on 2019-2024 Census data for the Joshua Tree Census Designated Place, a persons per household of 2.42 resulting in a population of 78 persons. Assumes electric usage and not gas for appliances and heating.
Construction: Construction Phases	Applicant provided estimates
Construction: Off-Road Equipment	Applicant provided estimates.
Construction: Dust From Material Movement	Engineer provided estimates
Operations: Hearths	Assumes housing will have no fireplaces or woodstoves.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	10.3896	70.2000
Building Area	sq. ft	62,400.0	77,405.0
Landscape Area	sq. ft	374,811	0.00000
Special Landscape Area	sq. ft	—	0.00000
Population	people	106.000	78.0000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	5/24/2027	1/13/2027
Demolition	Demolition	Work Days per Phase	100.0000	8.00000
Site Preparation	Site Preparation	Start Date	5/25/2027	1/14/2027
Site Preparation	Site Preparation	End Date	8/17/2027	1/28/2027
Site Preparation	Site Preparation	Work Days per Phase	60.0000	11.0000
Grading	Grading	Start Date	8/18/2027	2/1/2027
Grading	Grading	End Date	3/22/2028	5/14/2027
Grading	Grading	Work Days per Phase	155.000	75.0000
Paving	Paving	Start Date	3/3/2034	3/22/2028
Paving	Paving	End Date	8/4/2034	4/7/2028
Paving	Paving	Work Days per Phase	110.000	13.0000

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Concrete/Industrial Saws	Number per Day	1.000000	2.00000

Demolition	Excavators	Number per Day	3.00000	2.00000
Site Preparation	Rubber Tired Dozers	Number per Day	3.00000	2.00000
Site Preparation	Tractors/Loaders/Backhoes	Number per Day	4.00000	2.00000
Grading	Excavators	Number per Day	2.00000	3.00000
Grading	Graders	Number per Day	1.000000	2.00000
Grading	Rubber Tired Dozers	Number per Day	1.000000	3.00000
Grading	Tractors/Loaders/Backhoes	Number per Day	2.00000	3.00000
Building Construction- P1	Forklifts	Number per Day	3.00000	2.00000
Building Construction- P1	Generator Sets	Number per Day	1.000000	2.00000
Building Construction- P1	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Building Construction- P1	Welders	Number per Day	1.000000	2.00000
Paving	Pavers	Number per Day	2.00000	1.000000
Architectural Coating-1	Air Compressors	Number per Day	1.000000	2.00000
Architectural Coating-2	Air Compressors	Number per Day	1.000000	2.00000
Architectural Coating-3	Air Compressors	Number per Day	1.000000	2.00000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Grading	Material Imported	Cubic Yards	—	0.00000
Grading	Material Exported	Cubic Yards	—	0.00000
Grading	Total Acres Graded	acres	337.500	70.2000