Appendix B

Air Quality and Greenhouse Gas

Buena Vista Project

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Buena Vista Project

Appendix B-1-Air Quality and Greenhouse Gas Emissions Methodology

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODLOGY

Buena Vista Project

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April 2025

Buena Vista Project

Air Quality and Greenhouse Gas Emissions Methodology

1. Introduction

Eyestone Environmental has been retained to conduct a comprehensive greenhouse gas (GHG) and criteria air pollutant emissions assessment for the Buena Vista Project (the "Project"). Emissions during both construction and operation of the Project were quantified. This assessment describes the methodology used to estimate the GHG and air pollutant emissions from existing and Project conditions and describes the methodology used to quantify GHG and air pollutant emission reductions from project design features and mitigation measures.

2. Air Pollutant and Greenhouse Gas Emissions Methodology

The Project would result in direct emissions of criteria pollutants and direct and indirect GHG emissions generated by different types of emissions sources, including:[1]

- Direct Emissions:
  - Construction: emissions associated with demolition of existing uses, shoring, excavation, grading, and construction-related equipment and vehicular activity;
  - Area source: emissions associated with consumer products, architectural coatings, and landscape equipment;
  - Energy source (building operations): emissions associated with space heating and cooling, and water heating;

[1] *Direct sources of emissions include Project-related vehicular trips and onsite combustion of fossil fuels (e.g., natural gas, propane, gasoline, and diesel). Whereas, indirect sources of emissions include offsite emissions associated with purchased electricity and embodied energy (e.g., energy used to convey, treat, and distribute water and wastewater)*

  - Mobile source: emissions associated with vehicles accessing the project site; and
  - Stationary source: emissions associated with stationary equipment (e.g., emergency generators).
  - Refrigerants: fugitive GHG emissions associated with building air conditioning and refrigeration equipment.

- Indirect Emissions:
  - Energy source (building operations): emissions associated with energy consumption, and lighting;
  - Solid Waste: emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon; and
  - Water/Wastewater: emissions associated with energy used to pump, convey, deliver, and treat water.

a. Emission Inventories

Project-related construction and operation emissions were calculated using SCAQMD's recommended California Emissions Estimator Model (CalEEMod). CalEEMod 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 associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. 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 by the SCAQMD to be an accurate and comprehensive tool for quantifying criteria pollutant and GHG impacts from land use projects throughout California.[2]

CalEEMod utilizes widely accepted models for emission estimates combined with appropriate default data that can be used if site-specific information is not available. These models and default estimates use sources such as the USEPA AP-42 emission factors, CARB's on-road emission model (EMission FACtor model (EMFAC)) and off-road equipment emission model (Off-road Emissions Inventory Program model (OFFROAD)).

[2] *See www.caleemod.com.*

(1) Construction

Construction activities would generate emissions from off-road equipment usage, on-road vehicle travel (truck hauling, vendor deliveries, and workers commuting), architectural coating, and paving. Each of these source types is discussed in more detail below. The Project's construction emissions were calculated using the SCAQMD recommended CalEEMod (Version 2022.1). Please refer to CalEEMod construction output files for a complete listing of construction details modeled. CalEEMod default values were used for equipment and vehicle emission factors, equipment load factors and vehicle trip lengths. It should be noted that the maximum daily emissions were predicted values for the worst-case day and do not represent the emissions that would occur for every day of Project construction. The maximum daily emissions were compared to the SCAQMD daily regional numeric indicators. Annual emissions were calculated based on the total number of hours each piece of equipment was used and the total number of vehicular trips (i.e., worker, vendor, and haul) over the duration of construction. In accordance with the SCAQMD's guidance, GHG emissions from construction were amortized over the lifetime of the Project. The SCAQMD defines the lifetime of a project as 30 years.[3] Therefore, total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate comparable to operational emissions.

(a) Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the equipment list and phase length. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel. Construction equipment emissions vary with engine model years in which newer equipment will emit fewer pollutants. As a conservative assumption, the CalEEMod model uses an emission rate for equipment which represents an average model year for available equipment within the Air Basin. CalEEMod calculates the exhaust emissions based on CARB OFFROAD methodology using the equation presented below.

Construction Off-Road Equipment:

$$\text{Emissions Diesel [lbs]} = \left(\sum_i \left(EF_i \times Pop_i \times AvgHP_i \times Load_i \times Activity_i \right.\right.$$

Where: EF_i = Emission factor from OFFROAD (lbs/hr)

Pop_i = Population (quantity of same equipment)

[3] *SCAQMD, Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans, 2008.*

$AvgHP_i$ = Maximum rated average horsepower (hp)

$Load_i$ = Load Factor (dimensionless)

$Activity_i$ = Hours of operation (hours)

i = Summation index

Fugitive dust emissions from use of off-road equipment were also calculated using CalEEMod based on the types of equipment used during grading activities and based on the amount of import/export from loading or unloading dirt into haul trucks. These methods have been adapted from USEPA's AP-42 method for Western Coal Mining. As recommended by SCAQMD, the fugitive dust emissions from the grading phase are calculated using the methodology described in USEPA AP-42. PM_{10} and $PM_{2.5}$ emissions from fugitive dust will be controlled by watering the construction site three times a day consistent with SCAQMD Rule 403 and were estimated to be reduced by 74 percent.

(b) Emissions from On-Road Trips

Construction generates on-road vehicle exhaust, evaporative, and dust emissions from personal vehicles for worker commuting, vendor deliveries, and trucks for soil and material hauling. These emissions are based on the number of trips and VMT along with emission factors from EMFAC. The emissions from mobile sources were calculated with the trip rates, trip lengths and emission factors for running from EMFAC as follows:

Construction On-Road Equipment:

Emissions pollutant (lbs) = VMT * EF running, pollutant

Where: VMT = vehicle miles traveled (miles)

EF running,pollutant = emission factor for running emissions (lbs/VMT)

Evaporative emissions, starting and idling emissions in CalEEMod were calculated by multiplying the number of trips times the respective emission factor for each pollutant.

(c) Emissions from Architectural Coating

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings. CalEEMod calculates the VOC evaporative emissions from application of residential and non-residential surface coatings using the following equation:

Construction Architectural Coating Emissions:

Emissions Architectural Coatings (lbs) =EF_{AC} x F *A_{paint}

Where: EF_{AC} = Emission Factor (lb/sf)

A_{paint} = Building Surface Area (sf)

The CalEEMod tool assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage. All of the land use information provided by a metric other than square footage erewill be converted to square footage using the default conversions or user defined equivalence.

F = fraction of surface area [%].

The default values based on SCAQMD methods used in their coating rules are 75 percent for the interior surfaces and 25 percent for the exterior shell. Parking areas are based on 6-percent coverage.

The emission factor (EF) is based on the VOC content of the surface coatings and is calculated estimated using the equation below:

EF_{AC} = C_{VOC}/454(g/lb) x 3.785(L/gal)/180*sf)

Where: EF = emission factor (lb/sf)

C = VOC content (g/L or gram per liter)

The emission factors for coating categories were calculated using the equation above based on default VOC content from provided by the air districts or CARB's statewide limits in CalEEMod. Architectural coating VOC emission factors are also consistent with SCAQMD Rule 1113 as discussed above.

(d) Emissions from Paving

CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation:

$Emissions_{AP}$ (lbs) = EF_{AP} x $A_{parking}$

Where: EF = emission factor (lb/acre)

A = area of the parking lot (acre)

Note: The Sacramento Metropolitan Air Quality Management District (SMAQMD) default emission factor is 2.62 lb/acre. This value is used as the default emission factor within CalEEMod

(2) Operation

Similar to construction, the SCAQMD-recommended CalEEMod was used to calculate potential emissions generated by the Project, including area source, energy sources (electricity and natural gas), mobile source, stationary sources (emergency generator), solid waste generation and disposal, water usage/wastewater generation, and refrigeration.

(3) Area Source Emissions

Area source emissions were calculated using the CalEEMod emissions inventory model, which includes consumer products, architectural coatings, and landscape maintenance equipment. Pollutant emissions generated by the Project were calculated using CalEEMod defaults, based upon the land uses that will be included in each project.

Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. SCAQMD did an evaluation of consumer product use compared to the total square footage of buildings using data from CARB consumer product Emission Inventory. To calculate the VOC emissions from consumer product use, the following equation was used in CalEEMod:

Emissions Consumer Products (lbs) = EF_{CP} x Building Area

Where:

EF_{CP} = pounds of VOC per building square foot

The factor is 1.98 x 10^{-5} lbs/sf for SCAQMD areas.

Building Area = the total square footage of all buildings including residential square footage

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. The operational emission methodology from architecture coating is the same as the construction methodology discussed above. All land use buildings are assumed to be repainted at a rate of 10 percent of area per year. This is based on the assumptions used by SCAQMD.

The combustion of fossil fuels to operate landscape equipment such as lawnmowers and trimmers, results in pollutant emissions. The emissions occur on-site and are considered a direct source of pollutant emissions. The emissions for landscaping equipment are based on the size of the land uses, the pollutant emission factors for fuel combustion. Pollutant emissions from landscaping equipment are generally calculated in CalEEMod as follows:

Landscaping Equipment:

Landscaping Equipment Emissions [lbs] = (Σ_i (Units × EF_{LE} × A_{LE})$_i$)

Where: Units = Number of land use units (same land use type) [1,000 sf]

EF_{LE} = Emission factor [grams (g)/1,000 sfday]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(4) Energy Emissions (Electricity and Natural Gas)

Pollutant emissions are emitted as a result of activities in buildings when electricity and natural gas are used as energy sources. Combustion of any type of fuel emits pollutant emissions directly into the atmosphere; when this occurs in a building, it is a direct emission source associated with that building. Pollutant emissions are also emitted during the generation of electricity from fossil fuels. When electricity is used in a building, the electricity generation typically takes place off-site at the power plant; electricity use in a building generally causes emissions in an indirect manner.

Energy demand emissions were calculated using the CalEEMod emissions inventory model. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. CalEEMod calculates energy use from systems covered by Title 24 Building Energy Efficiency Standards (e.g., heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from

lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

CalEEMod energy demand is based on the California Energy Commission (CEC) sponsored California Commercial End Use Survey (CEUS) study.[4] The data is specific for Electricity Demand Forecast Zones (EDFZ) and, therefore, EDFZ 16 was selected for the Project Site based on the Project's address. CalEEMod includes 2019 Title 24 Energy Efficiency Standards when calculating project energy usage.

(a) All-Electric Ordinance

In December 2022, the City approved Ordinance No. 187,714, which amends Divisions 2, 4, and 5 of Article 9 of Chapter IX of the LAMC to require all new buildings to be all-electric buildings with exceptions. The ordinance is applicable to new buildings in which an application for a building permit was submitted after June 1, 2023. Consistent with this new ordinance, Chapter IX of the LAMC, Section 99.02.202 defines an all-electric building as:

> A building that contains no combustion equipment, plumbing for combustion equipment, gas piping, or fuel gas serving any use including, but not limited to, space heating (including fireplaces), water heating (including pools and spas), cooking appliances (including barbeques), and clothes drying, within the building or building property lines, and instead uses electricity as the sole source of energy for all lighting, appliances and/or equipment, including, but not limited to, space heating, water heating, cooking appliances, and drying appliances.

Chapter IX of the LAMC, Section 99.04.106.8 provides exemptions from the requirements for cooking equipment contained within kitchens in a public use area, such as restaurants, commissaries, cafeterias, and community kitchens as long as electrical infrastructure is installed. Gas-powered process equipment in institutions, such as hospitals, industrial, and laboratories, is also exempt. The LAMC is consistent with 2022 Title 24 goals of encouraging all-electric development, which requires new residential uses to be electric-ready (wiring installed for all-electric appliances). Buildings in Los Angeles account for 43 percent of greenhouse gas emissions—more than any other sector in the City. These LAMC requirements ensure that new buildings being constructed are built to

[4] *2019 consumption estimates from the CEC's (2020, 2021) 2018–2030 Uncalibrated Commercial Sector Forecast (Commercial Forecast) and the RASS (refer to Table G-28) of Appendix G in CalEEMod User's Guide, 2022.*

leverage the increasingly clean electric grid, which is anticipated to be carbon-free by 2035, rather than relying on fossil fuels.

By default, CalEEMod 2022.1 assumes appliances such as water heating, clothes dryers and space heating are powered by natural gas. The CalEEMod 2022.1 model contains adjustments to take into account the increased electricity usage and decrease in GHG emissions as a result of all-electric development for residential uses. However, these adjustments are not yet available in CalEEMod 2022.1 for commercial uses (e.g., the Project). The CAPCOA GHG Handbook provides a methodology to calculate the equivalent electricity usage of an appliance that is normally powered by natural gas, such as clothes dryers, water heaters and space heating.[5] In order to account for the Project's compliance with the new all-electric ordinance, calculations were performed to convert appliances which are typically powered by natural gas, to electricity powered. Conservatively, the CAPCOA GHG Handbook also assumes some appliances that are typically powered by electricity to be powered by natural gas by default (e.g., refrigeration and air conditioning). As CalEEMod 2022.1 categorizes electricity usage as either Title 24 (e.g., space heating and water heating) versus non-Title 24 (e.g., appliances), a specific conversion for each category provided in the CAPCOA guidance was not available. Thus, some natural gas categories within the CAPCOA GHG Handbook (e.g., refrigeration) are likely already included as electric within CalEEMod. Thus, the conversion between natural gas to electricity for these categories within the CAPCOA GHG Handbook would be conservative and overstate the total electricity usage. The calculations are provided in Appendix A of this Draft EIR.

(b) Electricity

Because power plants are existing stationary sources permitted by air districts and/or the USEPA, criteria pollutant emissions are generally associated with the power plants themselves, and not individual buildings or electricity users. Additionally, criteria pollutant emissions from power plants are subject to local, state, and federal control measures, which can be considered to be the maximum feasible level of mitigation for stack emissions. In contrast, GHG emissions from power plants are not subject to stationary source permitting requirements to the same degree as criteria pollutants. As such, GHGs emitted by power plants may be indirectly attributed to individual buildings and electricity users, who have the greatest ability to decrease usage by applying mitigation measures to individual electricity "end uses." CalEEMod therefore calculates GHG

[5] *California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.*

emissions (but not criteria pollutant emissions) from regional power plants associated with building electricity use.

Emissions associated with electricity demand are based on the size of the residential, commercial and retail land uses, the electrical demand factors for the land uses, the emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual electricity GHG emissions in units of $MTCO_2e$ are calculated as follows:

Electricity:

$$\text{Annual Emissions } [MTCO_2e] = \left(\Sigma_i \left(\text{Units} \times D_E \times EF_E \times GWP\right)_i \right) \div 2{,}204.62$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_E = Electrical demand factor [megawatt-hour (MWh)/1,000 sf/yr]

EF_E = GHG emission factor [pounds per megawatt-hour (MWh)]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

2,204.62 = Conversion factor [pounds/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. Intensity factors for GHGs due to electrical generation to serve the electrical demands of the existing condition were obtained from the LADWP 2022 Power Content Label, which provides a CO_2 intensity of 567 pounds of CO_2 per MWh for 2022. By 2030, at least 60 percent of electricity shall be obtained from renewable sources. As year-by-year data is currently not available, the CO_2 intensity factor for the Project buildout was determined based on straight line interpolation based on current and future year data points.

(c) Natural Gas

The direct source emissions associated with natural gas combustion are based on the size of the land uses and the natural gas combustion factors for the land uses in units of million British thermal units (MMBtu). Natural gas emissions are calculated in CalEEMod as follows:

Natural Gas:

Natural Gas Emissions (lbs) = (Σ_i (Units × D_{NG} × EF_{NG})$_I$)

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_{NG} = Natural Gas combustion factor [MMBtu/1,000 sf]

EF_{NG} = Natural Gas combustion factor [pounds/MMBtu]

I = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(5) Mobile Source Emissions

Mobile-source emissions were calculated using the CalEEMod emissions inventory model. CalEEMod calculates the emissions associated with on-road mobile sources associated with residents, employees, visitors, and delivery vehicles visiting the Project Site based on the number of daily trips generated and vehicle miles traveled (VMT). The Traffic Study prepared by Gibson had calculated Project VMT which was entered into CalEEMod in calculating Project mobile source emissions.

Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2021.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

Mobile Emissions [lbs] = (Σ_i (Units × ADT x D_{TRIP} × EF_i)

Where: Units = Number of vehicles (same vehicle model year and class)

ADT = Average daily trip rate [trips/day]

D_{TRIP} = Trip distance [miles/trip]

EF = Pollutant emission factor [pounds per mile]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

Mobile source operational emissions were calculated based on the Project VMT estimates provided by the Gibson Transportation Consulting, Inc.[6,7] The Los Angeles Department of Transportation (LADOT) VMT Calculator was used.

Previously, trip generation for land uses was calculated based on survey data collected by the Institute of Transportation Engineers (ITE). However, these ITE trip generation rates were based on data collected at suburban, single-use, free standing sites, which may not be representative of urban mixed-use environments. Beginning in 2019, the USEPA has sponsored a study to collect travel survey data from mixed-use developments in order provide a more representative trip generation rate for multi-use sites. Results of the USEPA survey indicate that trip generation and VMT are affected by factors such as resident and job density, availability of transit, and accessibility of biking and walking paths. Based on these factors, the USEPA has developed equations known as the EPA Mixed-Use Development (MXD) model to calculate trip reductions for multi-use developments.[8] The LADOT VMT Calculator incorporates the USEPA MXD model and accounts for project features such as increased density and proximity to transit, which would reduce VMT and associated fuel usage in comparison to free-standing sites.

The Project design includes characteristics that would reduce trips and VMT as compared to a standard project within the air basin as measured by the air quality model (CalEEMod). While these Project characteristics primarily reduce greenhouse gas emissions, they would also reduce criteria air pollutants discussed herein. These relative reductions in vehicle trips and VMT from a standard project within the air basin help quantify the criteria air pollutant emissions reductions achieved by locating the Project in any infill, HQTA area that promotes alternative modes of transportation.

(6) Stationary Source (Emergency Generator Emissions)

Emissions of GHGs associated with use of emergency generators were calculated using CalEEMod, in which emission factors are based on Table 3.4-1 (Gaseous Emission Factors for Large Stationary Diesel Engines) from EPA's AP-42: Compilation of Air Pollutant Emission Factors. The emissions are based on the horsepower rating of the diesel generator and the number of hours operated per year for testing purposes. Annual emergency generator GHG emissions in units of $MTCO_2e$ were calculated as follows:

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[6] *Gibson Transportation Consulting, Inc., Transportation Assessment for the Buena Vista Project, Los Angeles, California, April 2022.*

[7] *Gibson, Supplemental Transportation Assessment for the Buena Vista Project, Los Angeles, California, April 2024.*

[8] *Environmental Protection Agency, Mixed-Use Trip Generation Model. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed June 21, 2023.*

Emergency Generator:

Emissions [lbs] = (Total HP x LF x HR × EF)

Where: Total HP = Total horsepower of emergency generators (Hp)
LF = Load Factor (CalEEMod default of 0.73)
HR = Hours Operated per Year
EF = AP-42 Emission Factor of 1.16 lb/hp-hr)

(7) Solid Waste Emissions

The generation of municipal solid waste (MSW) from day-to-day operational activities generally consists of product packaging, grass clippings, furniture, clothing, bottles, food scraps, newspapers, plastic, and other items routinely disposed of in trash bins. A portion of the MSW is diverted to waste recycling and reclamation facilities. Waste that is not diverted is usually sent to local landfills for disposal. MSW that is disposed in landfills results in GHG emissions of CO_2 and CH_4 from the decomposition of the waste that occurs over the span of many years.

Emissions of GHGs associated with solid waste disposal were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the retail and restaurant land uses, the waste disposal rate for the land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition, and the GWP values for the GHGs emitted. Annual waste disposal GHG emissions in units of $MTCO_2e$ were calculated in CalEEMod as follows:

Solid Waste:

Annual Emissions [$MTCO_2e$] = (Σ_i (Units × D_{MSW} × EF_{MSW} × GWP)$_i$) ÷ 1.1023

Where: Units = Number of land use units (same land use type) [1,000 sf]
D_{MSW} = Waste disposal rate [tons/1,000 sf/yr]
EF_{MSW} = GHG emission factor [tons/ton waste]
GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]
1.1023 = Conversion factor [tons/MT]
i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod allows the input of several variables to quantify solid waste emissions. The model requires the amount of waste disposed, which is the product of the waste disposal rate times the land use units. CalEEMod default annaual solid waste disposal rates used. The GHG emission factors, particularly for CH_4, depend on characteristics of the landfill, such as the presence of a landfill gas capture system and subsequent flaring or energy recovery. The default values, as provided in CalEEMod, for landfill gas capture (e.g., no capture, flaring, energy recovery), which are statewide averages, were used in this assessment. The Project includes a 76.4-percent recycling/diversion rate currently achieved within the City.[9]

(8) Water Usage and Wastewater Generation Emissions

GHG emissions are related to the energy used to convey, treat, and distribute water and wastewater. Thus, these emissions are generally indirect emissions from the production of electricity to power these systems. Three processes are necessary to supply potable water and include: (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, energy is used as the wastewater is treated and reused as reclaimed water.

Emissions related to water usage and wastewater generation were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the land uses, the water demand factors, the electrical intensity factors for water supply, treatment, and distribution and for wastewater treatment, the GHG emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. CalEEMod default annual water demand and wastewater rates were used. GHG emissions due to electricity are calculated in CalEEMod as follows for indoor and outdoor water demand:

[9] *City of Los Angeles, Sustainable City pLAn, Waste & Landfills, http://plan.lamayor.org/portfolio/waste-landfills-3rd, accessed August 1, 2024.*

Water Supply, Treatment, and Distribution; Wastewater Treatment (electricity):

$$\text{Annual Emissions } [MTCO_2e] = (\Sigma_i \ (\text{Units} \times D_W \times (EI_W \div 1{,}000) \times EF_W \times GWP)_i \ ) \div 2{,}204.62$$

Where:
- Units = Number of land use units (same land use type) [1,000 sf]
- D_W = Water demand factor [million gallons (Mgal)/1,000 sf/yr]
- EI_W = Electricity intensity factor [kilowatt-hours (kWh)/Mgal]
- 1,000 = Conversion factor [kWh/MWh]
- EF_W = GHG emission factor [pounds/MWh]
- GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]
- 2,205 = Conversion factor [pounds/MT]
- *i* = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod provides options to account for the use of water saving features such as the use of low-flow water fixtures (e.g., low-flow faucets, low-flow toilets). The same electricity GHG emissions factors discussed above were used for water and wastewater energy usage. In addition, the calculation of Project GHG emissions from water/wastewater usage accounts for a 20 percent reduction in water/wastewater emissions with implementation of CalGreen requirements.

(9) Refrigerant Emissions

The estimate the fugitive GHG emissions associated with building air conditioning (A/C) and refrigeration equipment is based on the different types of refrigeration equipment used by different types of land uses. For example, an office may use various types of A/C equipment, while a supermarket may use both A/C equipment and refrigeration equipment. All equipment that uses refrigerants has a charge size (i.e., quantity of refrigerant the equipment contains), operational and service refrigerant leak rates (from regular operation and routine servicing), and number of times serviced per lifetime. Each refrigerant has a GWP that is specific to that refrigerant. CalEEMod automatically generates a default A/C and refrigeration equipment inventory for each project land use subtype. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate. Note that CalEEMod does not quantify emissions from the disposal of refrigeration and A/C equipment at the end of its lifetime.

Buena Vista Project
Appendix B-2-Air Quality Worksheets

- Appendix B-2: Air Quality Worksheets
    - Appendix B-2.1: Summary of Air Pollutant Emissions
    - Appendix B-2.2: Localized Significance Threshold (LST) Calculation Worksheet
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AQ SUMMARY OF EMISSIONS WINTER
Construction Emissions (Unmitigated)

Regional (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2028	5	31	73	<1	12	3
2029	4	24	58	<1	11	3
2030	22	22	55	<1	12	3
2031	22	22	53	<1	12	3
2031 (Phase 2)	3	34	44	<1	8	2
2032	2	14	31	<1	7	2
2033	17	18	39	<1	8	2
2034	17	17	38	<1	8	2
MAX	22	34	73	<1	12	3
Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Difference	**(53)**	**(66)**	**(477)**	**(150)**	**(138)**	**(52)**
Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2028		26	39		2	1
2029		18	27		1	<1
2030		16	22		1	<1
2031		15	22		1	<1
2031 (Phase 2)		15	28		2	<1
2032		11	16		<1	<1
2033		14	22		1	<1
2034		14	22		1	<1
MAX		26	39		2	1
Threshold		104	1554		13	7
Difference		**(78)**	**(1,515)**		**(11)**	**(6)**
Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Incremental Regional Emissions (Project Less Existing)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	26	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	14	9	94	<1	27	7
Emergency Generator	2	7	6	<1	<1	<1
Total	43	16	101	<1	27	7
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(12)**	**(39)**	**(449)**	**(150)**	**(123)**	**(48)**
Impact	No	No	No	No	No	No

Project Localized (Buildout Year)						
Onsite Total		8	7		<1	<1
Threshold		**120**	**1861**		**4**	**2**
Difference		**(112)**	**(1854)**		**(4)**	**(2)**
Impact		**No**	**No**		**No**	**No**

AQ SUMMARY OF EMISSIONS SUMMER
Construction Emissions

Regional (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2028	5	42	78	<1	12	3
	2029	3	18	51	<1	11	3
	2030	21	17	54	<1	12	3
	2031	3	35	47	<1	10	3
	2032	2	14	33	<1	7	2
	2033	16	14	31	<1	7	2
	MAX	21	42	78	<1	12	3
	Threshold	**75**	**100**	**550**	**150**	**150**	**55**
	Difference	**(54)**	**(58)**	**(472)**	**(150)**	**(138)**	**(52)**
	Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2028		26	39		4	1
	2029		12	16		1	<1
	2030		12	16		1	<1
	2031		15	28		4	<1
	2032		11	16		<1	<1
	2033		11	16		<1	<1
	MAX		26	39		4	1
	Threshold		104	1554		13	7
	Difference		**(78)**	**(1,515)**		**(9)**	**(6)**
	Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Incremental Regional Emissions (Project Less Existing)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	36	<1	84	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	14	8	100	<1	27	7
Emergency Generator	2	7	6	<1	<1	<1
Total	52	16	191	<1	27	7
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(3)**	**(39)**	**(359)**	**(150)**	**(123)**	**(48)**
Impact	No	No	No	No	No	No

Project Localized (Buildout Year)						
Onsite Total		8	91		<1	<1
Threshold		**120**	**1,861**		**4**	**2**
Difference		**(112)**	**(1,770)**		**(4)**	**(2)**
Impact		**No**	**No**		**No**	**No**

Buena Vista

AQ SUMMARY OF EMISSIONS WINTER						
Operations (2031)						
Project Regional Emissions	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	17	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	9	6	64	<1	17	4
Emergency Generator	2	5	4	<1	<1	<1
Total	28	11	69	<1	17	5
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(27)**	**(44)**	**(481)**	**(150)**	**(133)**	**(50)**
Impact	No	No	No	No	No	No
Project Localized (2031)						
Onsite Total		5	5		<1	<1
Threshold		**120**	**1861**		**16**	**8**
Difference		**(115)**	**(1856)**		**(16)**	**(8)**
Impact		**No**	**No**		**No**	**No**

AQ SUMMARY OF EMISSIONS Summer						
Operations (2031)						
Project Regional Emissions	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	23	<1	53	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	10	6	68	<1	17	4
Emergency Generator	2	5	4	<1	<1	<1
Total	34	11	126	<1	17	5
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(21)**	**(44)**	**(424)**	**(150)**	**(133)**	**(50)**
Impact	No	No	No	No	No	No
Project Localized (2031)						
Onsite Total		6	58		<1	<1
Threshold		**120**	**1861**		**16**	**8**
Difference		**(114)**	**(1803)**		**(16)**	**(8)**
Impact		**No**	**No**		**No**	**No**

Emission Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Regional Winter Emissions						
Regional Operational Emissions	28	11	69	<1	17	5
Regional Construction Emissions	17	34	53	<1	12	3
Total Proposed Project Regional Overlap	**45**	**45**	**122**	**<1**	**29**	**8**
SCAQMD Operational Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Regional Summer Emissions						
Regional Operational Emissions	34	11	126	<1	17	5
Regional Construction Emissions	16	35	47	<1	10	3
Total Proposed Project Regional Overlap	**50**	**46**	**173**	**<1**	**27**	**8**
SCAQMD Operational Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Localized Winter Emissions						
Localized Operational Emissions		5	5		<1	<1
Localized Construction Emissions		15	28		2	<1
Total Proposed Project Localized Overlap		**21**	**32**		**2**	**<1**
SCAQMD Localized Significance Thresholds		**120**	**1861**		**16**	**8**
Exceed Threshold?		**No**	**No**		**No**	**No**
Localized Summer Emissions						
Localized Operational Emissions		6	58		<1	<1
Localized Construction Emissions		15	28		4	<1
Total Proposed Project Localized Overlap		**21**	**86**		**4**	**1**
SCAQMD Localized Significance Thresholds		**120**	**1861**		**16**	**8**
Exceed Threshold?		**No**	**No**		**No**	**No**

Buena Vista

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Central LA NO2 Monitoring Data

SRA	City	Design Value 2014-2016	98th percentile, ppb 2021	2022	2023	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	55	57	57	52	100	45

SRA	City	Design Value 2006-2008	Max Hourly, ppb 2021	2022	2023	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	120	78	75	64	180	60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	74%

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 25 meter receptor) 12.625

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)	
1	74	55	680	5	3	2	1	
2	108	80	1048	8	5	2	2	
5	161	120	1861	16	8	4	2	
3.9	**140**	**104**	**1554**	**13**	**7**	**3**	**2**	**<----Interpolated Value**

SCAQMD provides LST mass rate look-up tables for projects with active construction areas that are less than or equal to 5 acres. For projects that exceed 5 acres, such as the Project, the 5-acre LST look-up values can be used as a screening tool to determine which pollutants require detailed analysis. This approach is conservative as it assumes that all on-site emissions would occur within a 5-acre area and, therefore, over-predicts potential localized impacts (i.e., more pollutant emissions occurring within a smaller area and within closer proximity to potential sensitive receptors). As an example, if a project site is 10 acres (40,470 square meters) with an emission rate of 100 pounds per day from on-site activities, then the pollutant emissions would result in 0.0025 pounds per square meter per day. If the same amount of pollutant emissions occurred over a 5-acre site, then the emission rate would be 0.005 pounds per square meter per day or double the emission rate per square meter. The AERMOD dispersion model is a Gaussian model, so a receptor's pollutant concentration from area and volume sources is proportional to the distance to receptor and pollutant emission rate. A higher emission rate would result in a higher pollutant concentration at a receptor given the same distance. As shown in the SCAQMD's LST look-up tables, an increase in the site acreage from 1, 2, to 5 acres allows for more pollutant emissions without exceeding significance thresholds.

Buena Vista South Parcel (Phase 1)

Air Quality Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls Trips	Total Haul Trips	Max Daily Delivery Trips
Overall Duration	**3/1/2028**	**2/17/2031**	**36**	929				
Site Preparation	3/1/2028	3/15/2028	0	13	14.0	50.0	480.0	4.0
Demolition	3/16/2028	4/30/2028	1	39	16	10	270	2
Grading	5/1/2028	9/18/2028	5	121	14	140	13,818	4
Trenching	9/1/2028	10/31/2028	2	52	10	4	80	2
Mat Foundation	9/19/2028	9/20/2028	0	2	60			426
Building Construction	9/21/2028	2/15/2031	29	753	612			130
Methane Safety Design	9/21/2028	8/30/2029	11	295	12			2
Architectural Coating	4/1/2030	2/17/2031	11	277	122			2
Paving/Landscape	12/18/2030	2/17/2031	2	53	10			8

Site Acreage	
	3.9

Demolition Quantities	
Material from structures and asphalt (tons)	2,716

Import/Export Quantities during Grading	(CY)
Import	11,531
Export	85,196
Total (Import/Export)	96,727

Landfill Location	Distance (miles)
WM - Azusa Special Waste Services	24
Antelope Valley Landfill for Potentially Contaminated Soil	76
Conservatively 15% Contaminated Soil	32

Composite Distance

Mat Foundation:

	Dimensions (ft)		Depth (ft)	Concrete (cy)	No. Deliveries
Building 1	98.3	103.3	5	1,880	188
Building 2	115	100	5	2,130	213

Equipment	Site Preparation	Demo	Grading	Trenching	Mat Foundation	Building Construction	Methane Safety Design	Architectural Coating	Paving/ Landscape
Air Compressor (Electric)						4		3	
Aerial Lift (Electric)						4		3	
Bore/Drill Rig			1						
Cement and Mortar Mixers					6	2			
Concrete/Industrial Saws		1							
Cranes (Tower Electric)						2			
Cranes (Mobile)						1			
Crawler Tractors									
Crushing/Proc. Equipment									
Excavators	1	3	2	1					
Forklifts						3			
Generator Sets						1			
Graders				1					
Off-Highway Tractors									
Water Truck									
Pavers									1
Paving Equipment									2
Pumps			2		8	2			1
Plate Compactors									
Rollers									
Rough Terrain Forklifts									
Rubber Tired Dozers		2							
Rubber Tired Loaders	1		1	1					
Scrapers									
Signal Boards									
Skid Steer Loaders									
Surfacing Equipment									
Tractors/Loaders/Backhoes	2		2	1		3			
Trenchers									
Welders						1			
Other ( )									
Total Pieces	4	6	8	4	14	23	0	6	4

Buena Vista North Parcel (Phase 2)

Air Quality Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls Trips	Total Haul Trips	Max Daily Delivery Trips
Overall Duration	**2/18/2031**	**2/7/2034**	**36**	931				
Site Preparation	2/18/2031	3/3/2031	1	12	14.0	56	500.0	4.0
Grading	3/4/2031	8/18/2031	5	144	14	180	24,145	4
Well Re-abandonment	3/4/2031	4/7/2031	1	30	18	4	14	2
Trenching	8/19/2031	10/19/2031	2	53	10	4	40	2
Mat Foundation	8/19/2031	8/19/2031	-	1	60			479
Building Construction	8/20/2031	2/5/2034	30	772	372			84
Methane Safety Design	8/20/2031	8/17/2032	12	312	8			2
Architectural Coating	7/1/2033	2/7/2034	7	190	74			2
Paving/Landscape	12/11/2033	2/7/2034	2	50	10			4

Site Acreage	
	4.0

Demolition Quantities	
Material from structures and asphalt (tons)	

Import/Export Quantities during Grading	(CY)
Import	16,847
Export	152,168
Total (Import/Export)	169,015

Landfill Location	Distance (miles)
WM - Azusa Special Waste Services	24
Antelope Valley Landfill for Potentially Contaminated Soil	76
Conservatively 15% Contaminated Soil	32

Composite Distance

Mat Foundation:

	Dimensions (ft)		Depth (ft)	Concrete (cy)	No. Deliveries
Building 1	56.3	229.5	5	2,394	239

Equipment	Site Preparation	Grading	Well Re-abandonment	Trenching	Mat Foundation	Building Construction	Methane Safety Design	Architectural Coating	Paving/ Landscape
Air Compressor (Electric)						4		3	
Aerial Lift (Electric)						4		3	
Bore/Drill Rig		1	1						
Cement and Mortar Mixers					6	2			
Concrete/Industrial Saws									
Cranes (Tower)						2			
Cranes (Mobile)						1			
Crawler Tractors									
Crushing/Proc. Equipment									
Excavators	1	2		1					
Forklifts						3			
Generator Sets			2			1			
Graders				1					
Off-Highway Tractors			1						
Water Truck									
Pavers									1
Paving Equipment									2
Pumps		2	2		8	2			1
Plate Compactors									
Rollers									
Rough Terrain Forklifts									
Rubber Tired Dozers									
Rubber Tired Loaders	1	1		1					
Scrapers									
Signal Boards									
Skid Steer Loaders									
Surfacing Equipment									
Tractors/Loaders/Backhoes	2	2		1		3			
Trenchers									
Welders						1			
Other ( )			1						
Total Pieces	4	8	7	4	14	23	0	6	4

Offsite Improvements

Air Quality Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Haul Trips (includes two trips per haul)	Max Daily Delivery Trips		Construction Notes
Overall Duration	**9/1/2028**	**3/31/2029**	**7**	181					No specific start date. Assumed overlap would not occur with Project mat pour.
Excavation	9/1/2028	10/31/2028	2.0	43	20	6	6		
Utilities Installation	11/1/2028	1/31/2029	3.0	66	20	-	6		
Paving/Concrete	2/1/2029	3/31/2029	2.0	42	20	-	6		

Equipment						
	Excavation	**Utilities**	**Paving**			
Air Compressor						
Cement and Mortar Mixers			1			
Concrete/Industrial Saws			1			
Crawler Tractors						
Crushing/Proc. Equipment						
Excavators	1	1				
Forklifts						
Generator Sets						
Graders						
Off-Highway Tractors						
Water Truck	1	1				
Pavers			1			
Paving Equipment			1			
Pumps						
Plate Compactors						
Rollers			1			
Rough Terrain Forklifts						
Rubber Tired Dozers						
Rubber Tired Loaders	1	1				
Scrapers						
Signal Boards						
Skid Steer Loaders						
Surfacing Equipment						
Tractors/Loaders/Backhoes	1	1	1			
Trenchers						
Welders						
Other ( )						
Total Pieces	4	4	6			

Buena Vista

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

	Broadway and Cesar Chavez Avenue	
	Future with Project	
Direction	AM	PM
Total Intersection Volume Existing	4,132	4,523
Total Intersection Volume Proposed	5,474	6,152
Max Daily Trips Existing[a]	71,000	77,000
Max Daily Trips Proposed[a]	94,000	104,000
Caltrans K Factor (%)[b]	5.86%	5.95%

[a] Maximum Daily Trips are based on the Caltrans K Factor which is the percentage of the AADT in both directions during the peak hour.

[b] Caltrans K Factor obtained from 101 Freeway Monitoring Station, Postmile 0.5 which is closest to the Project site. Please refer to: https://dot.ca.gov/programs/traffic-operations/census

Buena Vista Project

Operational Truck Trips

Truck Trips (Buildout)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Retail and Restraurant	38.8	0.324	12.6
Office	6.75	0.039	0.3
Residential	1090.126	0.011	12.0
Total			25

A conservative estimate of the number of daily truck trips is provided based on the National Cooperative Highway Research Program Truck Trip Generation Data (Table D-2a through e).

For purposes of this discussion, all trucks would be considered diesel even though many truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx). The NCHRP data did not provide the percentage of trucks that would be equipped with a transportation refrigeration unit (TRU). For the purposes of this analysis, it was estimated that one of the trucks per day would be equipped with a TRU related to restaurant use.

National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.

Buena Vista Project

Appendix B-3-Greenhouse Gas Emissions Worksheets

- Appendix B-3: Greenhouse Gas Worksheets
    - Appendix B-3.1: GHG Modeling Parameters and Summary of Emissions
        - GHG Emissions Summary
        - GHG Parameters
            - Carbon Intensity
            - VMT
            - EVs

Buena Vista

CalEEMod Output Summary	
Year	CO2e
2028	1,777
2029	2,095
2030	2,215
2031	2,352
2032	1,400
2033	1,433
2034	164
Offsite Improvements	148
Total	11,584
30-year Amortized	386

Operational Emissions Summary (GHG)

CalEEMod Output Summary	
Buildout (Buildout Year)[b]	
Area	30
Energy (Natural Gas and Electricity)[b]	1,406
Mobile	4,259
Electric Vehicle Charging Credit	(102)
Emergency Generators	115
Solid Waste	69
Water/Wastewater	82
Refrig.	7
Operational Total	5,866
Construction	386
Total	**6,252**

[a] Existing Uses

[b] Please refer to CalEEMod outputs for Future uses and includes miscellaneous uses.

Buena Vista

SB100 - Renewable Portfolio Standards

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)
2022	35		567
2024	44	-20%	451
2027	52	-15%	382
2030	60	-13%	331
2036	65	-8%	305
2045	100	-35%	0

Construction Years	Carbon Intensity (lbs/MWh)
2028	397
2029	375
2030	354
2031	332
2032	311
2033	289
2034	267

Build Out Year	Carbon Intensity (lbs/MWh)
2034	267

Buena Vista

LADOT VMT Calculator Data

VMT Summary

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	0	5,861	5,861	1	1	**1.00**
Daily VMT	0	37,263	37,263			

Project with TDM (MXD Data)

	Proposed Project			*Project with Mitigation Measures*		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Total		**5,861**	**37,263**		**5,861**	**37,263**
Employee VMT			0			1,051
Employee VMT (percent of total)						0.0282
Residential VMT						11,458
Residential VMT (percent of total)						0.30749

Source: Gibson Transportation

GHG Emissions Reductions for Employee Uses Associated with Electric Vehicle Charging Stations/Plugins

Step 1: Estimating GHG Emisisons Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle

LADWP Electricity Emission Factor[1]	0.12	MTCO2E/MWh
Fuel Economy of Electric Vehicle[2]	0.47	kWh/mile
Electric Vehicle GHG Emissions	56.6	grams/mile
GHG Emissions from Employee Miles Traveled (CalEEMod)[3]	279.8	grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	223.2	grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Employee Average Yearly VMT with TDM and PDFs[4]	4,565,785	miles/year
Percent of Employee Miles Driven in Electric Vehicles due to this Measure	10.0%	
Employee VMT that is Displaced by Evs due to this Measure	456,579	miles/year
GHG Emisisons Reduction from Employee Electric Vehicles	**102**	MTCO2E/MWh

Energy Usage	**212,814**

Notes:
1) CO2 intensity factor reflects a 2034 RPS for LADWP (267 lbs of CO2E/MWh).
2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. Available at: http://afdc.energy.gov/fuels/electricity_benefits.html.
3) CalEEMod Output file provided in Appendix XX.X of this Draft EIR.
4) Residential charging of vehicles would primarily occur over night, while commercial use charging of vehicles would primarily occur during the day. In addition, it is assumed that the charging stations/plugins for residential uses would be fully utlized which is supported by the projected number of electric vehicles in the future. Bloomberg New Energy Finance projects that electric vehicles will represent 35 percent of global new car sales by 2040 (https://about.bnef.com/blog/electric-vehicles-to-be-35-of-global-new-car-sales-by-2040/).

Buena Vista Project

Appendix B-4-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix B-4: Modeling Output Files
  - Appendix B-4.1: CalEEMod Outputs
    - Project Construction South Parcel
    - Project Construction North Parcel
    - Project Construction Onsite South Parcel
    - Project Construction Onsite North Parcel
    - Project Off-site Improvements
    - Project Operations South Parcel (2031)
    - Project Operations
    - Project Operation (No PDF)

Buena Vista - Construction South Parcel (Phase 1) Detailed Report

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5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Construction South Parcel (Phase 1)
Construction Start Date	3/1/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.066144773792104, -118.23541591476739
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Apartments High Rise	631	Dwelling Unit	3.90	706,854	29,788	0.00	1,515	—

High Turnover (Sit Down Restaurant)	15.8	1000sqft	0.00	15,800	0.00	—	—	—
Strip Mall	10.0	1000sqft	0.00	10,000	0.00	—	—	—
General Office Building	1.50	1000sqft	0.00	1,500	0.00	—	—	—
Enclosed Parking with Elevator	931	Space	8.38	372,400	0.00	—	—	—
Recreational Swimming Pool	3.30	1000sqft	0.00	3,300	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.3	35.8	66.0	0.15	0.86	11.6	12.0	0.79	2.65	3.02	20,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.1	24.9	60.7	0.08	0.86	11.9	12.4	0.79	2.71	3.20	17,507
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	16.4	42.0	0.07	0.38	9.49	9.83	0.36	2.17	2.48	13,378
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.63	3.00	7.67	0.01	0.07	1.73	1.79	0.06	0.40	0.45	2,215

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	4.37	35.8	66.0	0.15	0.86	10.5	11.2	0.79	2.39	3.02	20,159
2029	3.48	17.8	50.8	0.06	0.41	10.2	10.6	0.38	2.31	2.69	15,153
2030	21.3	17.4	54.2	0.06	0.39	11.6	12.0	0.36	2.65	3.01	16,305
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	4.34	24.9	60.7	0.08	0.86	10.5	11.2	0.79	2.39	3.02	17,507
2029	3.45	18.2	45.8	0.06	0.41	10.2	10.6	0.38	2.31	2.69	14,714
2030	22.1	22.2	55.4	0.07	0.53	11.9	12.4	0.49	2.71	3.20	17,159
2031	21.6	21.5	53.4	0.07	0.51	11.9	12.4	0.47	2.71	3.17	16,900
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2028	1.61	16.4	23.6	0.07	0.38	4.45	4.83	0.36	1.03	1.39	10,735
2029	2.94	15.6	40.2	0.05	0.35	8.55	8.90	0.32	1.95	2.27	12,655
2030	14.4	15.4	42.0	0.05	0.34	9.49	9.83	0.32	2.17	2.48	13,378
2031	2.43	2.34	5.97	0.01	0.06	1.27	1.33	0.05	0.29	0.34	1,856
Annual	—	—	—	—	—	—	—	—	—	—	—
2028	0.29	3.00	4.31	0.01	0.07	0.81	0.88	0.06	0.19	0.25	1,777
2029	0.54	2.85	7.34	0.01	0.06	1.56	1.62	0.06	0.36	0.41	2,095
2030	2.63	2.81	7.67	0.01	0.06	1.73	1.79	0.06	0.40	0.45	2,215
2031	0.44	0.43	1.09	< 0.005	0.01	0.23	0.24	0.01	0.05	0.06	307

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.36	19.8	25.4	0.04	0.84	—	0.84	0.78	—	0.78	4,697
Demolition	—	—	—	—	—	0.91	0.91	—	0.14	0.14	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	13.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.36	19.8	25.4	0.04	0.84	—	0.84	0.78	—	0.78	4,697
Demolition	—	—	—	—	—	0.91	0.91	—	0.14	0.14	—
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	14.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.12	2.72	< 0.005	0.09	—	0.09	0.08	—	0.08	502
Demolition	—	—	—	—	—	0.10	0.10	—	0.01	0.01	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.50
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.39	0.50	< 0.005	0.02	—	0.02	0.02	—	0.02	83.1
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	212
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.4
Hauling	0.01	0.89	0.34	0.01	0.01	0.22	0.23	0.01	0.06	0.07	818

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.77	0.00	0.00	0.21	0.21	0.00	0.05	0.05	200
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.3
Hauling	0.01	0.93	0.35	0.01	0.01	0.22	0.23	0.01	0.06	0.07	817
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	21.7
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.66
Hauling	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	87.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.10
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.5

3.3. Site Preparation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	3.85	10.3	0.02	0.15	—	0.15	0.14	—	0.14	1,647
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.40	0.30	< 0.005	< 0.005	0.36	0.36	< 0.005	0.04	0.04	63.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.37	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	58.7

Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.25
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.71
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.37
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.67	0.00	0.00	0.18	0.18	0.00	0.04	0.04	175
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	125
Hauling	0.05	4.63	1.74	0.03	0.05	1.11	1.17	0.05	0.30	0.36	4,086
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.44
Hauling	< 0.005	0.17	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	146
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.74
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.1

3.5. Grading (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	6.97	12.3	0.02	0.22	—	0.22	0.20	—	0.20	1,919
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.05	1.02	0.78	< 0.005	< 0.005	0.97	0.97	< 0.005	0.10	0.10	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.31	4.07	0.01	0.07	—	0.07	0.07	—	0.07	636
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.35	0.26	< 0.005	< 0.005	0.31	0.31	< 0.005	0.03	0.03	55.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.42	0.74	< 0.005	0.01	—	0.01	0.01	—	0.01	105
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	9.23
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	185
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	125
Hauling	0.19	16.0	5.94	0.10	0.20	4.15	4.35	0.20	1.14	1.33	15,197
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	59.0
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	41.4
Hauling	0.06	5.59	1.97	0.03	0.07	1.37	1.43	0.07	0.37	0.44	5,033
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.77
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.85
Hauling	0.01	1.02	0.36	0.01	0.01	0.25	0.26	0.01	0.07	0.08	833

3.7. Mat Foundation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	7.39	5.35	0.01	0.29	—	0.29	0.27	—	0.27	994
Onsite truck	0.14	3.01	2.31	0.01	< 0.005	2.87	2.88	< 0.005	0.29	0.29	495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.45
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.90
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.20	3.38	0.00	0.00	0.78	0.78	0.00	0.18	0.18	794
Vendor	0.37	19.5	8.85	0.11	0.19	4.03	4.22	0.19	1.10	1.29	15,240
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.18
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	83.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.69
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	11.7	15.5	0.03	0.41	—	0.41	0.37	—	0.37	2,916
Onsite truck	0.03	0.62	0.48	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	104
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	11.7	15.5	0.03	0.41	—	0.41	0.37	—	0.37	2,916
Onsite truck	0.03	0.65	0.50	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	106

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.81	3.72	0.01	0.10	—	0.10	0.09	—	0.09	698
Onsite truck	0.01	0.15	0.12	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	25.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	116
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	2.09	2.08	34.5	0.00	0.00	8.00	8.00	0.00	1.88	1.88	8,099
Vendor	0.09	4.08	1.97	0.03	0.03	1.11	1.14	0.03	0.31	0.34	4,058
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	2.08	2.37	29.4	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,663
Vendor	0.09	4.26	1.99	0.03	0.03	1.11	1.14	0.03	0.31	0.34	4,052
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.57	7.35	0.00	0.00	1.90	1.90	0.00	0.44	0.44	1,864
Vendor	0.02	1.03	0.47	0.01	0.01	0.26	0.27	0.01	0.07	0.08	971
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.34	0.00	0.00	0.35	0.35	0.00	0.08	0.08	309
Vendor	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	161
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	11.3	15.5	0.03	0.38	—	0.38	0.35	—	0.35	2,915
Onsite truck	0.03	0.61	0.48	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	11.3	15.5	0.03	0.38	—	0.38	0.35	—	0.35	2,915
Onsite truck	0.03	0.64	0.50	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	104
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	9.71	13.3	0.03	0.33	—	0.33	0.30	—	0.30	2,499
Onsite truck	0.02	0.53	0.42	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	88.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.77	2.42	< 0.005	0.06	—	0.06	0.05	—	0.05	414
Onsite truck	< 0.005	0.10	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	14.6
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	2.01	1.82	32.3	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,960
Vendor	0.09	3.89	1.87	0.03	0.03	1.11	1.14	0.03	0.31	0.34	3,955
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.98	2.10	27.3	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,534
Vendor	0.08	4.06	1.92	0.03	0.03	1.11	1.14	0.03	0.31	0.34	3,949

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.69	1.80	24.6	0.00	0.00	6.78	6.78	0.00	1.59	1.59	6,559
Vendor	0.07	3.50	1.62	0.03	0.03	0.94	0.97	0.03	0.26	0.29	3,386
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.33	4.48	0.00	0.00	1.24	1.24	0.00	0.29	0.29	1,086
Vendor	0.01	0.64	0.30	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	561
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.1	15.5	0.03	0.36	—	0.36	0.33	—	0.33	2,915
Onsite truck	0.03	0.60	0.47	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	101
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.1	15.5	0.03	0.36	—	0.36	0.33	—	0.33	2,915
Onsite truck	0.03	0.63	0.49	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	102
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	9.53	13.3	0.03	0.31	—	0.31	0.29	—	0.29	2,499
Onsite truck	0.02	0.52	0.41	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	86.8
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.20	1.74	2.42	< 0.005	0.06	—	0.06	0.05	—	0.05	414
Onsite truck	< 0.005	0.10	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	14.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.93	1.56	30.3	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,831
Vendor	0.09	3.72	1.81	0.03	0.03	1.11	1.14	0.03	0.31	0.34	3,835
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.90	1.83	25.6	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,414
Vendor	0.08	3.90	1.85	0.03	0.03	1.11	1.14	0.03	0.31	0.34	3,828
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.62	1.57	23.1	0.00	0.00	6.78	6.78	0.00	1.59	1.59	6,453
Vendor	0.07	3.34	1.56	0.03	0.03	0.94	0.97	0.03	0.26	0.29	3,283
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.29	4.21	0.00	0.00	1.24	1.24	0.00	0.29	0.29	1,068
Vendor	0.01	0.61	0.29	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	544
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.03	0.62	0.49	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	100
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.17	1.67	< 0.005	0.04	—	0.04	0.03	—	0.03	315
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	10.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	52.1
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	1.78
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.57	1.82	24.1	0.00	0.00	8.00	8.00	0.00	1.88	1.88	7,304
Vendor	0.08	3.73	1.75	0.03	0.03	1.11	1.14	0.03	0.31	0.34	3,708
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.20	2.72	0.00	0.00	0.85	0.85	0.00	0.20	0.20	801
Vendor	0.01	0.40	0.19	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	401
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.50	0.00	0.00	0.16	0.16	0.00	0.04	0.04	133
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	66.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Methane Safety Design (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.63
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.68	0.00	0.00	0.16	0.16	0.00	0.04	0.04	159
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.58	0.00	0.00	0.16	0.16	0.00	0.04	0.04	150
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	36.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Methane Safety Design (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.63	0.00	0.00	0.16	0.16	0.00	0.04	0.04	156
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	60.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.54	0.00	0.00	0.16	0.16	0.00	0.04	0.04	148
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	60.8

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	85.3
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	14.1
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.94	6.31	0.01	0.13	—	0.13	0.12	—	0.12	997
Paving	0.41	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.28
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.8
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.43

Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.42	0.00	0.00	0.13	0.13	0.00	0.03	0.03	121
Vendor	< 0.005	0.24	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.04
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.75
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.28
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Paving (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.82	6.31	0.01	0.13	—	0.13	0.12	—	0.12	997
Paving	0.41	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.17
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.43	0.71	< 0.005	0.01	—	0.01	0.01	—	0.01	112
Paving	0.05	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.69
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.13	0.13	0.00	0.03	0.03	119
Vendor	< 0.005	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	228
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.7
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.26
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.57
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	11.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.01
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	2.07	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.31	6.04	0.00	0.00	1.59	1.59	0.00	0.37	0.37	1,561

Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	59.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.37	5.09	0.00	0.00	1.59	1.59	0.00	0.37	0.37	1,478
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	58.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.24	3.47	0.00	0.00	1.02	1.02	0.00	0.24	0.24	969
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.63	0.00	0.00	0.19	0.19	0.00	0.04	0.04	160
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.98	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.36	4.79	0.00	0.00	1.59	1.59	0.00	0.37	0.37	1,456
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.57	0.00	0.00	0.18	0.18	0.00	0.04	0.04	167
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Trenching (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.12	12.0	0.02	0.24	—	0.24	0.22	—	0.22	1,927
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	6.97
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.12	12.0	0.02	0.24	—	0.24	0.22	—	0.22	1,927
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	7.06
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.73	1.71	< 0.005	0.03	—	0.03	0.03	—	0.03	274
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.13	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	45.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.56	0.00	0.00	0.13	0.13	0.00	0.03	0.03	132
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.4
Hauling	0.01	0.46	0.17	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	125
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	62.3
Hauling	0.01	0.47	0.17	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	434

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.1
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.89
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	61.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.47
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.2

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	3/16/2028	4/30/2028	6.00	39.0	—
Site Preparation	Site Preparation	3/1/2028	3/15/2028	6.00	13.0	—
Grading	Grading	5/1/2028	9/18/2028	6.00	121	—
Mat Foundation	Building Construction	9/19/2028	9/20/2028	6.00	2.00	—
Building Construction	Building Construction	9/21/2028	2/15/2031	6.00	753	—
Methane Safety Design	Building Construction	9/21/2028	8/30/2029	6.00	295	—
Paving	Paving	12/18/2030	2/17/2031	6.00	53.0	—
Architectural Coating	Architectural Coating	4/1/2030	2/17/2031	6.00	277	—
Trenching	Trenching	9/1/2028	10/31/2028	6.00	52.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	158	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Excavators	Diesel	Average	1.00	8.00	158	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	6.00	8.00	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	8.00	8.00	11.0	0.74
Building Construction	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Electric	Average	4.00	8.00	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Architectural Coating	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Trenching	Excavators	Diesel	Average	1.00	8.00	158	0.38
Trenching	Graders	Diesel	Average	1.00	8.00	148	0.41
Trenching	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	2.00	10.2	HHDT,MHDT
Demolition	Hauling	10.0	24.0	HHDT
Demolition	Onsite truck	6.00	0.18	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	14.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	50.0	24.0	HHDT
Site Preparation	Onsite truck	27.0	0.18	HHDT
Grading	—	—	—	—
Grading	Worker	14.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	4.00	10.2	HHDT,MHDT
Grading	Hauling	140	32.0	HHDT
Grading	Onsite truck	72.0	0.18	HHDT
Mat Foundation	—	—	—	—

Mat Foundation	Worker	60.0	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	426	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	213	0.18	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	8.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	4.00	0.18	HHDT,MHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	122	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	1.00	0.18	HHDT,MHDT
Building Construction	—	—	—	—
Building Construction	Worker	612	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	130	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	65.0	0.18	HHDT,MHDT
Methane Safety Design	—	—	—	—
Methane Safety Design	Worker	12.0	18.5	LDA,LDT1,LDT2
Methane Safety Design	Vendor	2.00	10.2	HHDT,MHDT
Methane Safety Design	Hauling	0.00	20.0	HHDT
Methane Safety Design	Onsite truck	1.00	0.18	HHDT,MHDT
Trenching	—	—	—	—
Trenching	Worker	10.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	2.00	10.2	HHDT,MHDT
Trenching	Hauling	4.00	32.0	HHDT

Trenching	Onsite truck	3.00	0.18	HHDT

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%

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	1,431,379	477,126	57,375	15,475	21,899

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 (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,716	—
Site Preparation	0.00	0.00	0.00	0.00	—
Grading	11,531	85,196	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	8.38

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
General Office Building	0.00	0%
Enclosed Parking with Elevator	8.38	100%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	2,034	397	0.05	0.01
2029	2,034	375	0.05	0.01
2030	2,607	354	0.05	0.01
2031	2,607	332	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9

Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888

Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7

Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see project description
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon intensity for construction years
Construction: On-Road Fugitive Dust	80 percent paved onsite travel

Buena Vista - Construction North Parcel (Phase 2) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Construction North Parcel (Phase 2)
Construction Start Date	2/18/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	8.60
Location	34.07072782377335, -118.22982571307602
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Apartments High Rise	355	Dwelling Unit	4.00	383,272	59,444	0.00	884	—

High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—
Strip Mall	5.00	1000sqft	0.00	5,000	0.00	0.00	—	—
General Office Building	3.75	1000sqft	0.00	3,750	0.00	0.00	—	—
Enclosed Parking with Elevator	546	Space	4.91	218,400	0.00	0.00	—	—
Recreational Swimming Pool	1.60	1000sqft	0.00	1,600	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.4	35.4	47.2	0.18	0.71	9.22	9.93	0.67	1.86	2.53	23,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.0	33.8	44.5	0.18	0.69	7.49	8.17	0.65	1.76	2.41	23,120
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.02	17.0	27.6	0.09	0.36	5.72	6.00	0.34	1.30	1.55	12,350
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	3.11	5.03	0.02	0.07	1.04	1.10	0.06	0.24	0.28	2,045

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2031	3.02	35.4	47.2	0.18	0.71	9.22	9.93	0.67	1.86	2.53	23,159
2032	2.26	14.0	33.3	0.05	0.34	6.35	6.69	0.32	1.43	1.75	10,031
2033	16.4	13.8	35.1	0.05	0.32	7.21	7.53	0.30	1.64	1.93	10,692
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2031	3.00	33.8	44.5	0.18	0.69	7.49	8.17	0.65	1.76	2.41	23,120
2032	2.24	14.3	30.8	0.05	0.34	6.35	6.69	0.32	1.43	1.75	9,780
2033	17.0	17.8	39.1	0.06	0.44	7.40	7.84	0.41	1.68	2.08	11,624
2034	16.9	17.5	38.1	0.06	0.43	7.40	7.83	0.39	1.68	2.07	11,482
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2031	1.39	17.0	23.3	0.09	0.36	4.87	5.23	0.34	1.14	1.47	12,350
2032	1.91	12.2	27.0	0.04	0.29	5.37	5.67	0.27	1.21	1.49	8,457
2033	8.02	12.2	27.6	0.04	0.28	5.72	6.00	0.26	1.30	1.55	8,655
2034	1.50	1.50	3.32	0.01	0.04	0.63	0.66	0.03	0.14	0.18	989
Annual	—	—	—	—	—	—	—	—	—	—	—
2031	0.25	3.11	4.26	0.02	0.07	0.89	0.95	0.06	0.21	0.27	2,045
2032	0.35	2.23	4.92	0.01	0.05	0.98	1.03	0.05	0.22	0.27	1,400
2033	1.46	2.22	5.03	0.01	0.05	1.04	1.10	0.05	0.24	0.28	1,433
2034	0.27	0.27	0.61	< 0.005	0.01	0.11	0.12	0.01	0.03	0.03	164

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	3.31	10.3	0.02	0.12	—	0.12	0.11	—	0.11	1,647
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.02	0.43	0.34	< 0.005	< 0.005	0.45	0.45	< 0.005	0.05	0.05	69.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	54.2
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.26
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.97
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.37
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.55	0.00	0.00	0.18	0.18	0.00	0.04	0.04	167
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	114

Hauling	0.06	4.68	1.80	0.03	0.06	1.25	1.31	0.06	0.34	0.40	4,243
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.75
Hauling	< 0.005	0.16	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	140
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.62
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.1

3.3. Grading (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	6.39	16.8	0.03	0.22	—	0.22	0.20	—	0.20	2,757
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.06	1.25	1.00	< 0.005	< 0.005	1.38	1.38	< 0.005	0.14	0.14	210
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	6.39	16.8	0.03	0.22	—	0.22	0.20	—	0.20	2,757
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.05	1.32	1.03	< 0.005	< 0.005	1.38	1.38	< 0.005	0.14	0.14	213
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.34	2.52	6.63	0.01	0.09	—	0.09	0.08	—	0.08	1,088
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.02	0.51	0.40	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	83.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.46	1.21	< 0.005	0.02	—	0.02	0.01	—	0.01	180
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.65	0.00	0.00	0.18	0.18	0.00	0.04	0.04	175
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	114
Hauling	0.24	18.5	7.01	0.13	0.25	5.34	5.59	0.25	1.46	1.72	18,108
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.55	0.00	0.00	0.18	0.18	0.00	0.04	0.04	167
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	114
Hauling	0.23	19.2	7.07	0.13	0.25	5.34	5.59	0.25	1.46	1.72	18,085
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	66.9
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	45.0
Hauling	0.09	7.66	2.78	0.05	0.10	2.10	2.20	0.10	0.57	0.67	7,138
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.46

Hauling	0.02	1.40	0.51	0.01	0.02	0.38	0.40	0.02	0.10	0.12	1,182

3.5. Well Re-abandonment (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.21	7.75	0.01	0.21	—	0.21	0.19	—	0.19	1,251
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	6.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.21	7.75	0.01	0.21	—	0.21	0.19	—	0.19	1,251
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	6.94
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	103
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.57
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.0

Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.83	0.00	0.00	0.24	0.24	0.00	0.06	0.06	225
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.1
Hauling	< 0.005	0.28	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.71	0.00	0.00	0.24	0.24	0.00	0.06	0.06	215
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.0
Hauling	< 0.005	0.29	0.11	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	254
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.69
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	20.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.97
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.78
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.45

3.7. Mat Foundation (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.97	7.35	5.34	0.01	0.29	—	0.29	0.26	—	0.26	994
Onsite truck	0.15	3.27	2.62	0.01	< 0.005	3.60	3.60	< 0.005	0.37	0.37	548
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.72
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.51
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.45
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	2.78	0.00	0.00	0.78	0.78	0.00	0.18	0.18	749
Vendor	0.41	19.9	9.45	0.12	0.22	4.53	4.74	0.22	1.24	1.46	15,903
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.99
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	43.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.33
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.02	0.38	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	66.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.02	0.40	0.32	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	67.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	3.40	4.86	0.01	0.11	—	0.11	0.10	—	0.10	917
Onsite truck	0.01	0.12	0.10	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	21.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.62	0.89	< 0.005	0.02	—	0.02	0.02	—	0.02	152
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	3.47
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.94	17.2	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,642
Vendor	0.06	2.30	1.13	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	1.11	14.6	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,439

Vendor	0.05	2.41	1.13	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,396
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.35	4.81	0.00	0.00	1.52	1.52	0.00	0.36	0.36	1,418
Vendor	0.02	0.76	0.36	0.01	0.01	0.23	0.23	0.01	0.06	0.07	754
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.88	0.00	0.00	0.28	0.28	0.00	0.07	0.07	235
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2032) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	10.5	15.4	0.03	0.32	—	0.32	0.30	—	0.30	2,915
Onsite truck	0.02	0.37	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	65.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	10.5	15.4	0.03	0.32	—	0.32	0.30	—	0.30	2,915
Onsite truck	0.02	0.39	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	65.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	9.06	13.2	0.03	0.28	—	0.28	0.26	—	0.26	2,506
Onsite truck	0.02	0.33	0.26	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	56.2
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.19	1.65	2.41	< 0.005	0.05	—	0.05	0.05	—	0.05	415
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	9.31
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92	0.78	16.2	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,578
Vendor	0.06	2.21	1.08	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,316
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.95	13.7	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,335
Vendor	0.05	2.30	1.11	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,313
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.81	12.4	0.00	0.00	4.16	4.16	0.00	0.97	0.97	3,822
Vendor	0.05	1.98	0.94	0.02	0.02	0.61	0.63	0.02	0.17	0.19	1,989
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.15	2.26	0.00	0.00	0.76	0.76	0.00	0.18	0.18	633
Vendor	0.01	0.36	0.17	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	329
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.22	10.3	15.4	0.03	0.30	—	0.30	0.28	—	0.28	2,915
Onsite truck	0.02	0.37	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	64.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	10.3	15.4	0.03	0.30	—	0.30	0.28	—	0.28	2,915
Onsite truck	0.02	0.39	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	64.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	8.84	13.2	0.03	0.26	—	0.26	0.24	—	0.24	2,499
Onsite truck	0.02	0.32	0.26	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	55.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	2.40	< 0.005	0.05	—	0.05	0.04	—	0.04	414
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	9.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.77	15.4	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,517
Vendor	0.06	2.12	1.04	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,241
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.79	13.0	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,278
Vendor	0.05	2.22	1.07	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,238
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.80	11.7	0.00	0.00	4.14	4.14	0.00	0.97	0.97	3,723
Vendor	0.05	1.90	0.90	0.02	0.02	0.61	0.63	0.02	0.17	0.19	1,919
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.15	2.14	0.00	0.00	0.76	0.76	0.00	0.18	0.18	616
Vendor	0.01	0.35	0.16	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	10.1	15.3	0.03	0.29	—	0.29	0.26	—	0.26	2,915
Onsite truck	0.02	0.38	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	63.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.86	1.30	< 0.005	0.02	—	0.02	0.02	—	0.02	246
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	5.34
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.8
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.88
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.84	0.78	12.3	0.00	0.00	4.86	4.86	0.00	1.14	1.14	4,228
Vendor	0.05	2.13	1.03	0.02	0.02	0.72	0.74	0.02	0.20	0.22	2,158

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.08	0.00	0.00	0.41	0.41	0.00	0.10	0.10	363
Vendor	< 0.005	0.18	0.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	183
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.20	0.00	0.00	0.07	0.07	0.00	0.02	0.02	60.1
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	30.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Methane Safety Design (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.50
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.10	0.10	0.00	0.02	0.02	99.8
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.1

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.31	0.00	0.00	0.10	0.10	0.00	0.02	0.02	95.5
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	30.5
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	18.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.97
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Methane Safety Design (2032) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.57
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.84
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.35	0.00	0.00	0.10	0.10	0.00	0.02	0.02	98.5
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	55.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.10	0.10	0.00	0.02	0.02	93.2
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	55.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.06	0.06	0.00	0.01	0.01	51.7
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	29.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.55
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.71	6.29	0.01	0.12	—	0.12	0.11	—	0.11	997

Paving	0.26	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.08
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.18	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	49.2
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.14
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.35	0.00	0.00	0.13	0.13	0.00	0.03	0.03	115
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.76
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.26
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Paving (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.69	6.30	0.01	0.12	—	0.12	0.11	—	0.11	997
Paving	0.26	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.03
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.33	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	89.0
Paving	0.02	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.27
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.7
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.33	0.00	0.00	0.13	0.13	0.00	0.03	0.03	114
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.3
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.70
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.52
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.52
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Architectural Coatings	6.06	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.66
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.11	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.15	3.06	0.00	0.00	0.97	0.97	0.00	0.23	0.23	899
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	53.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	2.58	0.00	0.00	0.97	0.97	0.00	0.23	0.23	851
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	53.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.18	0.00	0.00	0.42	0.42	0.00	0.10	0.10	373
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.21	0.00	0.00	0.08	0.08	0.00	0.02	0.02	61.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.52
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.25	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	2.44	0.00	0.00	0.97	0.97	0.00	0.23	0.23	841
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	51.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.23	0.00	0.00	0.09	0.09	0.00	0.02	0.02	76.2
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	12.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Trenching (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	4.21	12.0	0.02	0.20	—	0.20	0.18	—	0.18	1,926
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	4.21	12.0	0.02	0.20	—	0.20	0.18	—	0.18	1,926
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.94
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.61	1.74	< 0.005	0.03	—	0.03	0.03	—	0.03	280
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.32	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	46.3

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.46	0.00	0.00	0.13	0.13	0.00	0.03	0.03	125
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.1
Hauling	0.01	0.41	0.16	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	402
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.13	0.13	0.00	0.03	0.03	119
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.0
Hauling	0.01	0.43	0.16	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	402
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.6
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.29
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	58.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.37
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.67

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

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

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/18/2031	3/3/2031	6.00	12.0	—
Grading	Grading	3/4/2031	8/18/2031	6.00	144	—
Well Re-abandonment	Grading	3/4/2031	4/7/2031	6.00	30.0	—

Mat Foundation	Building Construction	8/19/2031	8/19/2031	6.00	1.00	—
Building Construction	Building Construction	8/20/2031	2/5/2034	6.00	772	—
Methane Safety Design	Building Construction	8/20/2031	8/17/2032	6.00	312	—
Paving	Paving	12/11/2033	2/7/2034	6.00	50.0	—
Architectural Coating	Architectural Coating	7/1/2033	2/7/2034	6.00	190	—
Trenching	Trenching	8/19/2031	10/18/2031	6.00	53.0	—

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
Site Preparation	Excavators	Diesel	Average	1.00	8.00	158	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Well Re-abandonment	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Well Re-abandonment	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Well Re-abandonment	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Well Re-abandonment	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Well Re-abandonment	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	6.00	8.00	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	8.00	8.00	11.0	0.74

Building Construction	Aerial Lifts	Electric	Average	4.00	8.00	46.0	0.31
Building Construction	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Trenching	Excavators	Diesel	Average	1.00	8.00	158	0.38
Trenching	Graders	Diesel	Average	1.00	8.00	148	0.41
Trenching	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	14.0	18.5	LDA,LDT1,LDT2

Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	56.0	24.0	HHDT
Site Preparation	Onsite truck	30.0	0.20	HHDT
Grading	—	—	—	—
Grading	Worker	14.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	4.00	10.2	HHDT,MHDT
Grading	Hauling	180	32.0	HHDT
Grading	Onsite truck	92.0	0.20	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	60.0	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	479	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	240	0.20	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	4.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	2.00	0.20	HHDT,MHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	74.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	1.00	0.20	HHDT,MHDT
Building Construction	—	—	—	—
Building Construction	Worker	372	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	84.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	42.0	0.20	HHDT,MHDT

Methane Safety Design	—	—	—	—
Methane Safety Design	Worker	8.00	18.5	LDA,LDT1,LDT2
Methane Safety Design	Vendor	2.00	10.2	HHDT,MHDT
Methane Safety Design	Hauling	0.00	20.0	HHDT
Methane Safety Design	Onsite truck	1.00	0.20	HHDT,MHDT
Trenching	—	—	—	—
Trenching	Worker	10.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	2.00	10.2	HHDT,MHDT
Trenching	Hauling	4.00	32.0	HHDT
Trenching	Onsite truck	3.00	0.20	HHDT
Well Re-abandonment	—	—	—	—
Well Re-abandonment	Worker	18.0	18.5	LDA,LDT1,LDT2
Well Re-abandonment	Vendor	2.00	10.2	HHDT,MHDT
Well Re-abandonment	Hauling	4.00	20.0	HHDT
Well Re-abandonment	Onsite truck	3.00	0.20	HHDT

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%

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	776,126	258,709	34,757	9,445	12,843

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)
Site Preparation	0.00	0.00	0.00	0.00	—
Grading	16,847	152,168	0.00	0.00	—
Well Re-abandonment	0.00	0.00	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	4.91

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
General Office Building	0.00	0%
Enclosed Parking with Elevator	4.91	100%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	2,034	332	0.05	0.01

2032	2,034	311	0.05	0.01
2033	2,544	289	0.05	0.01
2034	2,544	267	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—

CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—

Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9

Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—

2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see construction assumptions
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon Intensity for construction years
Construction: On-Road Fugitive Dust	80 percent paved onsite travel

Buena Vista - Construction Onsite South Parcel (Phase 1) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Construction Onsite South Parcel (Phase 1)
Construction Start Date	3/1/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.066144773792104, -118.23541591476739
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Apartments High Rise	631	Dwelling Unit	3.90	706,854	29,788	0.00	1,515	—

High Turnover (Sit Down Restaurant)	15.8	1000sqft	0.00	15,800	0.00	0.00	—	—
Strip Mall	10.0	1000sqft	0.00	10,000	0.00	0.00	—	—
General Office Building	1.50	1000sqft	0.00	1,500	0.00	0.00	—	—
Enclosed Parking with Elevator	931	Space	8.38	372,400	0.00	0.00	—	—
Recreational Swimming Pool	3.30	1000sqft	0.00	3,300	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.9	19.9	28.1	0.05	0.84	2.91	3.45	0.78	0.30	0.92	4,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.7	19.9	28.1	0.05	0.84	0.99	1.84	0.78	0.15	0.92	4,959
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.5	10.3	13.9	0.03	0.33	0.73	1.05	0.30	0.07	0.37	2,622
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.28	1.87	2.54	< 0.005	0.06	0.13	0.19	0.05	0.01	0.07	434

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	2.37	19.9	28.1	0.05	0.84	2.91	3.45	0.78	0.30	0.92	4,958
2029	1.34	11.9	16.0	0.03	0.38	0.89	1.27	0.35	0.09	0.44	3,021
2030	18.9	11.7	16.0	0.03	0.36	0.89	1.25	0.33	0.09	0.42	3,019
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	2.37	19.9	28.1	0.05	0.84	0.99	1.84	0.78	0.15	0.92	4,959
2029	1.34	12.0	16.0	0.03	0.38	0.89	1.27	0.35	0.09	0.44	3,022
2030	19.7	15.7	22.3	0.04	0.50	0.94	1.44	0.46	0.10	0.55	4,024
2031	19.6	15.3	22.3	0.04	0.47	0.94	1.42	0.44	0.10	0.53	4,027
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2028	0.99	8.69	13.0	0.02	0.30	0.65	0.95	0.28	0.07	0.35	2,266
2029	1.15	10.3	13.7	0.03	0.33	0.72	1.05	0.30	0.07	0.37	2,590
2030	12.5	10.2	13.9	0.03	0.32	0.73	1.04	0.29	0.07	0.36	2,622
2031	2.21	1.67	2.43	< 0.005	0.05	0.10	0.15	0.05	0.01	0.06	441
Annual	—	—	—	—	—	—	—	—	—	—	—
2028	0.18	1.59	2.38	< 0.005	0.06	0.12	0.17	0.05	0.01	0.06	375
2029	0.21	1.87	2.50	< 0.005	0.06	0.13	0.19	0.05	0.01	0.07	429
2030	2.28	1.86	2.54	< 0.005	0.06	0.13	0.19	0.05	0.01	0.07	434
2031	0.40	0.30	0.44	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01	73.1

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.36	19.8	25.4	0.04	0.84	—	0.84	0.78	—	0.78	4,697
Demolition	—	—	—	—	—	0.91	0.91	—	0.14	0.14	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	13.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.36	19.8	25.4	0.04	0.84	—	0.84	0.78	—	0.78	4,697
Demolition	—	—	—	—	—	0.91	0.91	—	0.14	0.14	—
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	14.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.12	2.72	< 0.005	0.09	—	0.09	0.08	—	0.08	502
Demolition	—	—	—	—	—	0.10	0.10	—	0.01	0.01	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.50
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.39	0.50	< 0.005	0.02	—	0.02	0.02	—	0.02	83.1
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	3.85	10.3	0.02	0.15	—	0.15	0.14	—	0.14	1,647
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.40	0.30	< 0.005	< 0.005	0.36	0.36	< 0.005	0.04	0.04	63.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.37	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	58.7

Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.25
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.71
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.37
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	6.97	12.3	0.02	0.22	—	0.22	0.20	—	0.20	1,919
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.05	1.02	0.78	< 0.005	< 0.005	0.97	0.97	< 0.005	0.10	0.10	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.31	4.07	0.01	0.07	—	0.07	0.07	—	0.07	636
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.35	0.26	< 0.005	< 0.005	0.31	0.31	< 0.005	0.03	0.03	55.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.42	0.74	< 0.005	0.01	—	0.01	0.01	—	0.01	105
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	9.23
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Mat Foundation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	7.39	5.35	0.01	0.29	—	0.29	0.27	—	0.27	994
Onsite truck	0.14	3.01	2.31	0.01	< 0.005	2.87	2.88	< 0.005	0.29	0.29	495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.45
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.90
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	11.7	15.5	0.03	0.41	—	0.41	0.37	—	0.37	2,916
Onsite truck	0.03	0.62	0.48	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	104
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	11.7	15.5	0.03	0.41	—	0.41	0.37	—	0.37	2,916
Onsite truck	0.03	0.65	0.50	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	106

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.81	3.72	0.01	0.10	—	0.10	0.09	—	0.09	698
Onsite truck	0.01	0.15	0.12	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	25.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	116
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	11.3	15.5	0.03	0.38	—	0.38	0.35	—	0.35	2,915
Onsite truck	0.03	0.61	0.48	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	11.3	15.5	0.03	0.38	—	0.38	0.35	—	0.35	2,915
Onsite truck	0.03	0.64	0.50	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	104
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	9.71	13.3	0.03	0.33	—	0.33	0.30	—	0.30	2,499
Onsite truck	0.02	0.53	0.42	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	88.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.77	2.42	< 0.005	0.06	—	0.06	0.05	—	0.05	414
Onsite truck	< 0.005	0.10	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	14.6
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.1	15.5	0.03	0.36	—	0.36	0.33	—	0.33	2,915
Onsite truck	0.03	0.60	0.47	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	101
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.1	15.5	0.03	0.36	—	0.36	0.33	—	0.33	2,915
Onsite truck	0.03	0.63	0.49	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	102
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	9.53	13.3	0.03	0.31	—	0.31	0.29	—	0.29	2,499
Onsite truck	0.02	0.52	0.41	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	86.8
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.20	1.74	2.42	< 0.005	0.06	—	0.06	0.05	—	0.05	414
Onsite truck	< 0.005	0.10	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	14.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.03	0.62	0.49	< 0.005	< 0.005	0.88	0.88	< 0.005	0.09	0.09	100
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.17	1.67	< 0.005	0.04	—	0.04	0.03	—	0.03	315
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	10.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	52.1
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	1.78
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Methane Safety Design (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.63
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Methane Safety Design (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.94	6.31	0.01	0.13	—	0.13	0.12	—	0.12	997
Paving	0.41	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.28
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.8
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.43

Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Paving (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	3.82	6.31	0.01	0.13	—	0.13	0.12	—	0.12	997
Paving	0.41	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.17
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.43	0.71	< 0.005	0.01	—	0.01	0.01	—	0.01	112
Paving	0.05	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.69
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.57
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	11.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.01
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	2.07	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	17.6	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.98	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	0.36	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Trenching (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.12	12.0	0.02	0.24	—	0.24	0.22	—	0.22	1,927
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	6.97
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.12	12.0	0.02	0.24	—	0.24	0.22	—	0.22	1,927
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	7.06
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.73	1.71	< 0.005	0.03	—	0.03	0.03	—	0.03	274
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.13	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	45.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	3/16/2028	4/29/2028	6.00	39.0	—
Site Preparation	Site Preparation	3/1/2028	3/15/2028	6.00	13.0	—
Grading	Grading	5/1/2028	9/18/2028	6.00	121	—
Mat Foundation	Building Construction	9/19/2028	9/20/2028	6.00	2.00	—
Building Construction	Building Construction	9/21/2028	2/15/2031	6.00	753	—
Methane Safety Design	Building Construction	9/21/2028	8/30/2029	6.00	295	—
Paving	Paving	12/18/2030	2/17/2031	6.00	53.0	—
Architectural Coating	Architectural Coating	4/1/2030	2/17/2031	6.00	277	—
Trenching	Trenching	9/1/2028	10/31/2028	6.00	52.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	158	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Excavators	Diesel	Average	1.00	8.00	158	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	6.00	8.00	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	8.00	8.00	11.0	0.74
Building Construction	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Electric	Average	4.00	8.00	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Architectural Coating	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Trenching	Excavators	Diesel	Average	1.00	8.00	158	0.38
Trenching	Graders	Diesel	Average	1.00	8.00	148	0.41
Trenching	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	0.00	24.0	HHDT
Demolition	Onsite truck	6.00	0.18	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	24.0	HHDT
Site Preparation	Onsite truck	27.0	0.18	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	32.0	HHDT
Grading	Onsite truck	72.0	0.18	HHDT
Mat Foundation	—	—	—	—

Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	213	0.18	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	4.00	0.18	HHDT,MHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	1.00	0.18	HHDT,MHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	65.0	0.18	HHDT,MHDT
Methane Safety Design	—	—	—	—
Methane Safety Design	Worker	0.00	18.5	LDA,LDT1,LDT2
Methane Safety Design	Vendor	0.00	10.2	HHDT,MHDT
Methane Safety Design	Hauling	0.00	20.0	HHDT
Methane Safety Design	Onsite truck	1.00	0.18	HHDT,MHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	18.5	LDA,LDT1,LDT2
Trenching	Vendor	0.00	10.2	HHDT,MHDT
Trenching	Hauling	0.00	32.0	HHDT

Trenching	Onsite truck	3.00	0.18	HHDT

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%

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	1,431,379	477,126	57,375	15,475	21,899

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 (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,716	—
Site Preparation	0.00	0.00	0.00	0.00	—
Grading	11,531	85,196	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	8.38

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
General Office Building	0.00	0%
Enclosed Parking with Elevator	8.38	100%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	2,034	397	0.05	0.01
2029	2,034	375	0.05	0.01
2030	2,607	354	0.05	0.01
2031	2,607	332	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9

Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888

Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7

Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see project description
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon intensity for construction years
Construction: On-Road Fugitive Dust	80 percent paved onsite travel

Buena Vista - Construction Onsite North Parcel (Phase 2) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Construction Onsite North Parcel (Phase 2)
Construction Start Date	2/18/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	8.60
Location	34.07072782377335, -118.22982571307602
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Apartments High Rise	355	Dwelling Unit	4.00	383,272	59,444	0.00	884	—

High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—
Strip Mall	5.00	1000sqft	0.00	5,000	0.00	0.00	—	—
General Office Building	3.75	1000sqft	0.00	3,750	0.00	0.00	—	—
Enclosed Parking with Elevator	546	Space	4.91	218,400	0.00	0.00	—	—
Recreational Swimming Pool	1.60	1000sqft	0.00	1,600	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.3	15.5	27.8	0.05	0.54	3.64	4.13	0.50	0.37	0.82	4,918
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.8	15.5	27.8	0.05	0.54	1.60	2.03	0.50	0.16	0.57	4,919
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.14	9.39	14.7	0.03	0.28	0.78	1.02	0.26	0.08	0.31	2,606
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.30	1.71	2.69	< 0.005	0.05	0.14	0.19	0.05	0.01	0.06	431

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2031	1.94	15.5	27.8	0.05	0.54	3.64	4.13	0.50	0.37	0.82	4,918
2032	1.26	10.9	15.7	0.03	0.32	0.64	0.97	0.30	0.07	0.36	2,983
2033	15.3	10.7	15.7	0.03	0.30	0.64	0.94	0.28	0.07	0.34	2,982
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2031	1.94	15.5	27.8	0.05	0.54	1.60	2.03	0.50	0.16	0.57	4,919
2032	1.25	10.9	15.7	0.03	0.32	0.64	0.97	0.30	0.07	0.36	2,984
2033	15.8	14.4	22.0	0.04	0.42	0.67	1.09	0.39	0.07	0.45	3,983
2034	15.8	14.2	22.0	0.04	0.41	0.67	1.08	0.37	0.07	0.44	3,987
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2031	0.94	7.84	14.7	0.02	0.25	0.78	1.02	0.23	0.08	0.31	2,556
2032	1.08	9.39	13.5	0.03	0.28	0.54	0.81	0.26	0.05	0.31	2,564
2033	7.14	9.35	13.7	0.03	0.26	0.53	0.80	0.24	0.05	0.30	2,606
2034	1.42	1.33	2.08	< 0.005	0.04	0.06	0.10	0.04	0.01	0.04	374
Annual	—	—	—	—	—	—	—	—	—	—	—
2031	0.17	1.43	2.69	< 0.005	0.04	0.14	0.19	0.04	0.01	0.06	423
2032	0.20	1.71	2.46	< 0.005	0.05	0.10	0.15	0.05	0.01	0.06	425
2033	1.30	1.71	2.51	< 0.005	0.05	0.10	0.15	0.04	0.01	0.05	431
2034	0.26	0.24	0.38	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	61.8

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	3.31	10.3	0.02	0.12	—	0.12	0.11	—	0.11	1,647
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.02	0.43	0.34	< 0.005	< 0.005	0.45	0.45	< 0.005	0.05	0.05	69.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	54.2
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.26
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.97
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.37
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	6.39	16.8	0.03	0.22	—	0.22	0.20	—	0.20	2,757
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.06	1.25	1.00	< 0.005	< 0.005	1.38	1.38	< 0.005	0.14	0.14	210
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	6.39	16.8	0.03	0.22	—	0.22	0.20	—	0.20	2,757
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.05	1.32	1.03	< 0.005	< 0.005	1.38	1.38	< 0.005	0.14	0.14	213
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.34	2.52	6.63	0.01	0.09	—	0.09	0.08	—	0.08	1,088
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.02	0.51	0.40	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	83.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.46	1.21	< 0.005	0.02	—	0.02	0.01	—	0.01	180
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Well Re-abandonment (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.21	7.75	0.01	0.21	—	0.21	0.19	—	0.19	1,251
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	6.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	6.21	7.75	0.01	0.21	—	0.21	0.19	—	0.19	1,251
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.22	0.22	< 0.005	0.02	0.02	6.94
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	103
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.57
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.0

Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Mat Foundation (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.97	7.35	5.34	0.01	0.29	—	0.29	0.26	—	0.26	994
Onsite truck	0.15	3.27	2.62	0.01	< 0.005	3.60	3.60	< 0.005	0.37	0.37	548
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.72
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.51
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.45
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.25
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.02	0.38	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	66.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	10.8	15.4	0.03	0.34	—	0.34	0.32	—	0.32	2,915
Onsite truck	0.02	0.40	0.32	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	67.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	3.40	4.86	0.01	0.11	—	0.11	0.10	—	0.10	917
Onsite truck	0.01	0.12	0.10	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	21.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.62	0.89	< 0.005	0.02	—	0.02	0.02	—	0.02	152
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	3.47
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2032) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	10.5	15.4	0.03	0.32	—	0.32	0.30	—	0.30	2,915
Onsite truck	0.02	0.37	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	65.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	10.5	15.4	0.03	0.32	—	0.32	0.30	—	0.30	2,915
Onsite truck	0.02	0.39	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	65.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	9.06	13.2	0.03	0.28	—	0.28	0.26	—	0.26	2,506
Onsite truck	0.02	0.33	0.26	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	56.2
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.19	1.65	2.41	< 0.005	0.05	—	0.05	0.05	—	0.05	415
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	9.31
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.22	10.3	15.4	0.03	0.30	—	0.30	0.28	—	0.28	2,915
Onsite truck	0.02	0.37	0.30	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	64.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	10.3	15.4	0.03	0.30	—	0.30	0.28	—	0.28	2,915
Onsite truck	0.02	0.39	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	64.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	8.84	13.2	0.03	0.26	—	0.26	0.24	—	0.24	2,499
Onsite truck	0.02	0.32	0.26	< 0.005	< 0.005	0.53	0.53	< 0.005	0.05	0.05	55.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.61	2.40	< 0.005	0.05	—	0.05	0.04	—	0.04	414
Onsite truck	< 0.005	0.06	0.05	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	9.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	10.1	15.3	0.03	0.29	—	0.29	0.26	—	0.26	2,915
Onsite truck	0.02	0.38	0.31	< 0.005	< 0.005	0.63	0.63	< 0.005	0.06	0.06	63.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.86	1.30	< 0.005	0.02	—	0.02	0.02	—	0.02	246
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	5.34
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.8
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.88
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Methane Safety Design (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.50
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Methane Safety Design (2032) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.57
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.84
Annual	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.71	6.29	0.01	0.12	—	0.12	0.11	—	0.11	997

Paving	0.21	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.08
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.18	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	49.2
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.14
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Paving (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.69	6.30	0.01	0.12	—	0.12	0.11	—	0.11	997
Paving	0.21	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.03
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.44	0.75	< 0.005	0.01	—	0.01	0.01	—	0.01	119
Paving	0.03	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.36
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	19.8
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating (2033) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.52
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Architectural Coatings	6.06	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.66
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.11	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating (2034) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	14.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.52
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	1.25	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Trenching (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	4.21	12.0	0.02	0.20	—	0.20	0.18	—	0.18	1,926
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	4.21	12.0	0.02	0.20	—	0.20	0.18	—	0.18	1,926
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.94
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.61	1.74	< 0.005	0.03	—	0.03	0.03	—	0.03	280
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.32	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	46.3

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.17
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

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

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/18/2031	3/3/2031	6.00	12.0	—
Grading	Grading	3/4/2031	8/18/2031	6.00	144	—
Well Re-abandonment	Grading	3/4/2031	4/7/2031	6.00	30.0	—

Mat Foundation	Building Construction	8/19/2031	8/19/2031	6.00	1.00	—
Building Construction	Building Construction	8/20/2031	2/5/2034	6.00	772	—
Methane Safety Design	Building Construction	8/20/2031	8/17/2032	6.00	312	—
Paving	Paving	12/11/2033	2/20/2034	6.00	61.0	—
Architectural Coating	Architectural Coating	7/1/2033	2/7/2034	6.00	190	—
Trenching	Trenching	8/19/2031	10/19/2031	6.00	53.0	—

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
Site Preparation	Excavators	Diesel	Average	1.00	8.00	158	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Well Re-abandonment	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Well Re-abandonment	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Well Re-abandonment	Off-Highway Tractors	Diesel	Average	1.00	8.00	38.0	0.44
Well Re-abandonment	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Well Re-abandonment	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	6.00	8.00	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	8.00	8.00	11.0	0.74

Building Construction	Aerial Lifts	Electric	Average	4.00	8.00	46.0	0.31
Building Construction	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Architectural Coating	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Trenching	Excavators	Diesel	Average	1.00	8.00	158	0.38
Trenching	Graders	Diesel	Average	1.00	8.00	148	0.41
Trenching	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2

Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	24.0	HHDT
Site Preparation	Onsite truck	30.0	0.20	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	32.0	HHDT
Grading	Onsite truck	92.0	0.20	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	240	0.20	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	2.00	0.20	HHDT,MHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	1.00	0.20	HHDT,MHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	42.0	0.20	HHDT,MHDT

Methane Safety Design	—	—	—	—
Methane Safety Design	Worker	0.00	18.5	LDA,LDT1,LDT2
Methane Safety Design	Vendor	0.00	10.2	HHDT,MHDT
Methane Safety Design	Hauling	0.00	20.0	HHDT
Methane Safety Design	Onsite truck	1.00	0.20	HHDT,MHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	18.5	LDA,LDT1,LDT2
Trenching	Vendor	0.00	10.2	HHDT,MHDT
Trenching	Hauling	0.00	32.0	HHDT
Trenching	Onsite truck	3.00	0.20	HHDT
Well Re-abandonment	—	—	—	—
Well Re-abandonment	Worker	0.00	18.5	LDA,LDT1,LDT2
Well Re-abandonment	Vendor	0.00	10.2	HHDT,MHDT
Well Re-abandonment	Hauling	0.00	20.0	HHDT
Well Re-abandonment	Onsite truck	3.00	0.20	HHDT

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%

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	776,126	258,709	34,757	9,445	12,843

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)
Site Preparation	0.00	0.00	0.00	0.00	—
Grading	16,847	152,168	0.00	0.00	—
Well Re-abandonment	0.00	0.00	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	4.91

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
General Office Building	0.00	0%
Enclosed Parking with Elevator	4.91	100%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	2,034	332	0.05	0.01

2032	2,034	311	0.05	0.01
2033	2,544	289	0.05	0.01
2034	2,544	267	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—

CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—

Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9

Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—

2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see construction assumptions
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon Intensity for construction years
Construction: On-Road Fugitive Dust	80 percent paved onsite travel

Buena Vista - Offsite Improvements Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Offsite Improvements
Construction Start Date	9/1/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.0677457614654, -118.23467804205457
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.25

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
User Defined Linear	0.50	Mile	1.00	0.00	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.65	5.16	11.9	0.02	0.20	0.45	0.65	0.19	0.11	0.30	2,620
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	6.23	11.7	0.02	0.20	0.45	0.65	0.19	0.11	0.30	2,605
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	1.17	2.77	< 0.005	0.05	0.09	0.14	0.04	0.02	0.07	560
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.21	0.50	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	92.8

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	0.65	5.16	11.9	0.02	0.20	0.45	0.65	0.19	0.11	0.30	2,620
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2028	0.65	5.20	11.7	0.02	0.20	0.45	0.65	0.19	0.11	0.30	2,605

2029	0.70	6.23	11.5	0.02	0.18	0.31	0.49	0.17	0.08	0.24	2,106
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2028	0.15	1.17	2.77	< 0.005	0.05	0.09	0.14	0.04	0.02	0.07	560
2029	0.12	0.98	1.85	< 0.005	0.03	0.05	0.09	0.03	0.01	0.04	333
Annual	—	—	—	—	—	—	—	—	—	—	—
2028	0.03	0.21	0.50	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	92.8
2029	0.02	0.18	0.34	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	55.2

3. Construction Emissions Details

3.1. Linear, Grading & Excavation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	4.37	10.5	0.02	0.20	—	0.20	0.18	—	0.18	1,677
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	4.37	10.5	0.02	0.20	—	0.20	0.18	—	0.18	1,677
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.51	1.23	< 0.005	0.02	—	0.02	0.02	—	0.02	198
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.7
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.13	0.00	0.00	0.26	0.26	0.00	0.06	0.06	265
Vendor	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	187
Hauling	0.01	0.54	0.21	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	491
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.96	0.00	0.00	0.26	0.26	0.00	0.06	0.06	250
Vendor	< 0.005	0.20	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	187
Hauling	0.01	0.56	0.21	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	490
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	30.0
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.0
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	57.8
Annual	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.96
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.65
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.57

3.3. Linear, Drainage, Utilities, & Sub-Grade (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	4.37	10.5	0.02	0.20	—	0.20	0.18	—	0.18	1,677
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.52	1.25	< 0.005	0.02	—	0.02	0.02	—	0.02	200
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.2
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.96	0.00	0.00	0.26	0.26	0.00	0.06	0.06	250
Vendor	< 0.005	0.20	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	30.4
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Linear, Drainage, Utilities, & Sub-Grade (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	4.14	10.5	0.02	0.18	—	0.18	0.17	—	0.17	1,677

Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.25	0.64	< 0.005	0.01	—	0.01	0.01	—	0.01	102
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.8
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.89	0.00	0.00	0.26	0.26	0.00	0.06	0.06	246
Vendor	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	182
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.2
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Linear, Paving (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	5.98	9.01	0.01	0.18	—	0.18	0.17	—	0.17	1,350
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.69	1.04	< 0.005	0.02	—	0.02	0.02	—	0.02	155
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	25.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.89	0.00	0.00	0.26	0.26	0.00	0.06	0.06	246
Vendor	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	182

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	28.8
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grading & Excavation	Linear, Grading & Excavation	9/1/2028	10/31/2028	5.00	43.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	11/1/2028	1/31/2029	5.00	66.0	—
Linear, Paving	Linear, Paving	2/1/2029	3/31/2029	5.00	42.0	—

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
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	158	0.38

Linear, Grading & Excavation	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	158	0.38
Linear, Drainage, Utilities, & Sub-Grade	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Linear, Drainage, Utilities, & Sub-Grade	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Linear, Paving	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	6.00	10.2	HHDT,MHDT

Linear, Grading & Excavation	Hauling	6.00	24.0	HHDT
Linear, Grading & Excavation	Onsite truck	0.00	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	6.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	0.00	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	6.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

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)
Linear, Grading & Excavation	0.00	0.00	1.00	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	1.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	1.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	690	0.05	0.01
2029	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4

Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578

Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—

Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions

Buena Vista - Operations South Parcel (2031) Detailed Report

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4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Operations South Parcel (2031)
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.06633285447674, -118.23535236392179
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Apartments High Rise	631	Dwelling Unit	3.90	706,854	29,788	0.00	1,515	—

High Turnover (Sit Down Restaurant)	15.8	1000sqft	0.00	15,800	0.00	0.00	—	—
Strip Mall	10.0	1000sqft	0.00	10,000	0.00	0.00	—	—
General Office Building	1.50	1000sqft	0.00	1,500	0.00	0.00	—	—
Enclosed Parking with Elevator	931	Space	8.38	372,400	0.00	0.00	—	—
Recreational Swimming Pool	3.30	1000sqft	0.00	3,300	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	34.2	11.2	126	0.18	0.42	16.8	17.2	0.40	4.27	4.67	26,665
Mit.	34.2	11.2	126	0.18	0.42	16.8	17.2	0.40	4.27	4.67	25,718
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.2	11.2	68.8	0.17	0.37	16.8	17.2	0.36	4.27	4.63	25,772
Mit.	28.2	11.2	68.8	0.17	0.37	16.8	17.2	0.36	4.27	4.63	24,826

% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	31.4	9.52	105	0.17	0.29	16.6	16.9	0.28	4.22	4.50	25,709
Mit.	31.4	9.52	105	0.17	0.29	16.6	16.9	0.28	4.22	4.50	24,763
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.74	1.74	19.1	0.03	0.05	3.03	3.09	0.05	0.77	0.82	4,256
Mit.	5.74	1.74	19.1	0.03	0.05	3.03	3.09	0.05	0.77	0.82	4,100
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.54	5.66	68.4	0.17	0.09	16.8	16.9	0.09	4.27	4.36	17,561
Area	23.0	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	430
Waste	—	—	—	—	—	—	—	—	—	—	1,126
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8
Stationary	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	34.2	11.2	126	0.18	0.42	16.8	17.2	0.40	4.27	4.67	26,665
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.46	6.18	64.2	0.16	0.09	16.8	16.9	0.09	4.27	4.36	16,836
Area	17.1	—	—	—	—	—	—	—	—	—	—

Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	430
Waste	—	—	—	—	—	—	—	—	—	—	1,126
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8
Stationary	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	28.2	11.2	68.8	0.17	0.37	16.8	17.2	0.36	4.27	4.63	25,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.37	6.21	65.6	0.16	0.09	16.6	16.7	0.09	4.22	4.31	17,039
Area	21.1	0.33	36.5	< 0.005	0.03	—	0.03	0.02	—	0.02	115
Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	430
Waste	—	—	—	—	—	—	—	—	—	—	1,126
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8
Stationary	0.90	2.51	2.29	< 0.005	0.13	0.00	0.13	0.13	0.00	0.13	462
Total	31.4	9.52	105	0.17	0.29	16.6	16.9	0.28	4.22	4.50	25,709
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.71	1.13	12.0	0.03	0.02	3.03	3.05	0.02	0.77	0.79	2,821
Area	3.86	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0
Energy	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	1,077
Water	—	—	—	—	—	—	—	—	—	—	71.1
Waste	—	—	—	—	—	—	—	—	—	—	186
Refrig.	—	—	—	—	—	—	—	—	—	—	4.94
Stationary	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4
Total	5.74	1.74	19.1	0.03	0.05	3.03	3.09	0.05	0.77	0.82	4,256

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.54	5.66	68.4	0.17	0.09	16.8	16.9	0.09	4.27	4.36	17,561
Area	23.0	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	344
Waste	—	—	—	—	—	—	—	—	—	—	266
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8
Stationary	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	34.2	11.2	126	0.18	0.42	16.8	17.2	0.40	4.27	4.67	25,718
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.46	6.18	64.2	0.16	0.09	16.8	16.9	0.09	4.27	4.36	16,836
Area	17.1	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	344
Waste	—	—	—	—	—	—	—	—	—	—	266
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8
Stationary	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	28.2	11.2	68.8	0.17	0.37	16.8	17.2	0.36	4.27	4.63	24,826
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.37	6.21	65.6	0.16	0.09	16.6	16.7	0.09	4.22	4.31	17,039
Area	21.1	0.33	36.5	< 0.005	0.03	—	0.03	0.02	—	0.02	115
Energy	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	6,508
Water	—	—	—	—	—	—	—	—	—	—	344
Waste	—	—	—	—	—	—	—	—	—	—	266
Refrig.	—	—	—	—	—	—	—	—	—	—	29.8

Stationary	0.90	2.51	2.29	< 0.005	0.13	0.00	0.13	0.13	0.00	0.13	462
Total	31.4	9.52	105	0.17	0.29	16.6	16.9	0.28	4.22	4.50	24,763
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.71	1.13	12.0	0.03	0.02	3.03	3.05	0.02	0.77	0.79	2,821
Area	3.86	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0
Energy	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	1,077
Water	—	—	—	—	—	—	—	—	—	—	56.9
Waste	—	—	—	—	—	—	—	—	—	—	44.0
Refrig.	—	—	—	—	—	—	—	—	—	—	4.94
Stationary	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4
Total	5.74	1.74	19.1	0.03	0.05	3.03	3.09	0.05	0.77	0.82	4,100

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,287
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	131
General Office Building	—	—	—	—	—	—	—	—	—	—	30.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,263
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1,498
Total	—	—	—	—	—	—	—	—	—	—	5,954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,287
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	131
General Office Building	—	—	—	—	—	—	—	—	—	—	30.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,263
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1,498
Total	—	—	—	—	—	—	—	—	—	—	5,954
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	379

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	123
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.8
General Office Building	—	—	—	—	—	—	—	—	—	—	5.07
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	209
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	248
Total	—	—	—	—	—	—	—	—	—	—	986

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,287
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	131
General Office Building	—	—	—	—	—	—	—	—	—	—	30.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,263
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1,498
Total	—	—	—	—	—	—	—	—	—	—	5,954

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,287
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	745
Strip Mall	—	—	—	—	—	—	—	—	—	—	131
General Office Building	—	—	—	—	—	—	—	—	—	—	30.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,263
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1,498
Total	—	—	—	—	—	—	—	—	—	—	5,954
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	379
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	123
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.8
General Office Building	—	—	—	—	—	—	—	—	—	—	5.07
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	209
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	248
Total	—	—	—	—	—	—	—	—	—	—	986

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	356
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	197
Total	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	554
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	356
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	197
Total	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	554

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	59.0
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.7
Total	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	91.7

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	356
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Recreational Swimming Pool	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	197
Total	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	554
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	356
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	197
Total	0.03	0.46	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	554
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	59.0
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.7

Total	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	91.7

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.33	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.95	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Total	23.0	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.33	—	—	—	—	—	—	—	—	—	—
Total	17.1	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.74	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0
Total	3.86	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.33	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.95	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Total	23.0	0.48	53.3	< 0.005	0.05	—	0.05	0.04	—	0.04	168
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	15.7	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.33	—	—	—	—	—	—	—	—	—	—
Total	17.1	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.74	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0
Total	3.86	0.06	6.67	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	19.0

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	343
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.7
General Office Building	—	—	—	—	—	—	—	—	—	—	3.86
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.82
Total	—	—	—	—	—	—	—	—	—	—	430
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	343
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.7
General Office Building	—	—	—	—	—	—	—	—	—	—	3.86
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.82
Total	—	—	—	—	—	—	—	—	—	—	430

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	56.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.77
General Office Building	—	—	—	—	—	—	—	—	—	—	0.64
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.47
Total	—	—	—	—	—	—	—	—	—	—	71.1

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	274
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	55.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	8.58
General Office Building	—	—	—	—	—	—	—	—	—	—	3.09
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.26
Total	—	—	—	—	—	—	—	—	—	—	344
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	274
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	55.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	8.58
General Office Building	—	—	—	—	—	—	—	—	—	—	3.09
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.26
Total	—	—	—	—	—	—	—	—	—	—	344
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	45.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	9.19
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.42
General Office Building	—	—	—	—	—	—	—	—	—	—	0.51
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.37

Total	—	—	—	—	—	—	—	—	—	—	56.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	714
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	355
Strip Mall	—	—	—	—	—	—	—	—	—	—	19.8
General Office Building	—	—	—	—	—	—	—	—	—	—	2.63
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	35.5
Total	—	—	—	—	—	—	—	—	—	—	1,126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	714
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	355
Strip Mall	—	—	—	—	—	—	—	—	—	—	19.8

General Office Building	—	—	—	—	—	—	—	—	—	—	2.63
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	35.5
Total	—	—	—	—	—	—	—	—	—	—	1,126
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	118
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	58.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	3.28
General Office Building	—	—	—	—	—	—	—	—	—	—	0.44
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	5.87
Total	—	—	—	—	—	—	—	—	—	—	186

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	168

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	83.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.67
General Office Building	—	—	—	—	—	—	—	—	—	—	0.62
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	8.37
Total	—	—	—	—	—	—	—	—	—	—	266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	168
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	83.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.67
General Office Building	—	—	—	—	—	—	—	—	—	—	0.62
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	8.37
Total	—	—	—	—	—	—	—	—	—	—	266
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	27.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	13.9

Strip Mall	—	—	—	—	—	—	—	—	—	—	0.77
General Office Building	—	—	—	—	—	—	—	—	—	—	0.10
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.39
Total	—	—	—	—	—	—	—	—	—	—	44.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	5.06
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	24.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.06
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	5.06

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	24.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.06
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.84
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.09
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.94

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	5.06
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	24.7

Strip Mall	—	—	—	—	—	—	—	—	—	—	0.06
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	5.06
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	24.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.06
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.84
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.09
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.94

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4
Total	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Total	1.64	4.59	4.18	0.01	0.24	0.00	0.24	0.24	0.00	0.24	842
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4
Total	0.16	0.46	0.42	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	76.4

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. 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
Total all Land Uses	3,763	3,763	3,763	1,373,495	23,693	23,693	23,693	8,647,945

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,763	3,763	3,763	1,373,495	23,693	23,693	23,693	8,647,945

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1431379.3499999999	477,126	57,375	15,475	21,899

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Apartments High Rise	2,489,511	332	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	810,983	332	0.0489	0.0069	1,109,160
Strip Mall	143,135	332	0.0489	0.0069	0.00
General Office Building	33,312	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	1,374,689	332	0.0489	0.0069	0.00
Recreational Swimming Pool	1,630,515	332	0.0489	0.0069	614,016

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)
Apartments High Rise	2,489,511	332	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	810,983	332	0.0489	0.0069	1,109,160

Strip Mall	143,135	332	0.0489	0.0069	0.00
General Office Building	33,312	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	1,374,689	332	0.0489	0.0069	0.00
Recreational Swimming Pool	1,630,515	332	0.0489	0.0069	614,016

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	23,519,768	510,601
High Turnover (Sit Down Restaurant)	4,795,833	0.00
Strip Mall	740,725	0.00
General Office Building	266,601	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	195,172	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	18,815,814	408,481
High Turnover (Sit Down Restaurant)	3,836,666	0.00
Strip Mall	592,580	0.00
General Office Building	213,280	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	156,138	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	378	—
High Turnover (Sit Down Restaurant)	188	—
Strip Mall	10.5	—
General Office Building	1.40	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	18.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	89.3	—
High Turnover (Sit Down Restaurant)	44.4	—
Strip Mall	2.48	—
General Office Building	0.33	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	4.44	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	2.00	1.00	200	500	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4

Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342

Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546
Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4

Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0
Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see project description
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon intensity for construction years
Characteristics: Utility Information	Carbon intensity for 2031
Operations: Hearths	No fireplaces

Operations: Energy Use	All electric building with the exception of restaurant cooking equipment and propane usage from firepits and grills around pools.

Buena Vista - Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Operations
Operational Year	2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.06633285447674, -118.23535236392179
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.28

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
Apartments High Rise	986	Dwelling Unit	7.87	1,090,126	89,232	0.00	2,399	—

High Turnover (Sit Down Restaurant)	23.8	1000sqft	0.00	23,800	0.00	0.00	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	0.00	—	—
General Office Building	5.25	1000sqft	0.00	5,250	0.00	0.00	—	—
Enclosed Parking with Elevator	1,477	Space	13.3	590,800	0.00	0.00	—	—
Recreational Swimming Pool	4.70	1000sqft	0.00	4,700	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	52.0	16.2	191	0.28	0.61	26.4	27.0	0.59	6.71	7.30	38,909
Mit.	52.0	16.2	191	0.28	0.61	26.4	27.0	0.59	6.71	7.30	37,445
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	42.6	16.2	101	0.26	0.54	26.4	27.0	0.53	6.71	7.24	37,566
Mit.	42.6	16.2	101	0.26	0.54	26.4	27.0	0.53	6.71	7.24	36,103
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	47.8	13.6	157	0.26	0.43	26.1	26.6	0.41	6.64	7.05	37,476
Mit.	47.8	13.6	157	0.26	0.43	26.1	26.6	0.41	6.64	7.05	36,012
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.72	2.49	28.7	0.05	0.08	4.77	4.85	0.07	1.21	1.29	6,205
Mit.	8.72	2.49	28.7	0.05	0.08	4.77	4.85	0.07	1.21	1.29	5,962
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.8	7.94	99.9	0.26	0.13	26.4	26.6	0.12	6.71	6.83	26,505
Area	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	620
Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	52.0	16.2	191	0.28	0.61	26.4	27.0	0.59	6.71	7.30	38,909
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.7	8.66	93.7	0.25	0.13	26.4	26.6	0.12	6.71	6.83	25,426
Area	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	620

Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	42.6	16.2	101	0.26	0.54	26.4	27.0	0.53	6.71	7.24	37,566
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.6	8.69	95.7	0.25	0.13	26.1	26.3	0.12	6.64	6.76	25,726
Area	32.8	0.51	57.4	< 0.005	0.05	—	0.05	0.04	—	0.04	181
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	620
Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	1.35	3.77	3.44	0.01	0.20	0.00	0.20	0.20	0.00	0.20	692
Total	47.8	13.6	157	0.26	0.43	26.1	26.6	0.41	6.64	7.05	37,476
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.48	1.59	17.5	0.05	0.02	4.77	4.79	0.02	1.21	1.23	4,259
Area	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Energy	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	1,400
Water	—	—	—	—	—	—	—	—	—	—	103
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	7.47
Stationary	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	8.72	2.49	28.7	0.05	0.08	4.77	4.85	0.07	1.21	1.29	6,205

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Mobile	13.8	7.94	99.9	0.26	0.13	26.4	26.6	0.12	6.71	6.83	26,505
Area	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	52.0	16.2	191	0.28	0.61	26.4	27.0	0.59	6.71	7.30	37,445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.7	8.66	93.7	0.25	0.13	26.4	26.6	0.12	6.71	6.83	25,426
Area	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	42.6	16.2	101	0.26	0.54	26.4	27.0	0.53	6.71	7.24	36,103
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.6	8.69	95.7	0.25	0.13	26.1	26.3	0.12	6.64	6.76	25,726
Area	32.8	0.51	57.4	< 0.005	0.05	—	0.05	0.04	—	0.04	181
Energy	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	8,458
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	1.35	3.77	3.44	0.01	0.20	0.00	0.20	0.20	0.00	0.20	692
Total	47.8	13.6	157	0.26	0.43	26.1	26.6	0.41	6.64	7.05	36,012
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.48	1.59	17.5	0.05	0.02	4.77	4.79	0.02	1.21	1.23	4,259

Area	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Energy	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	1,400
Water	—	—	—	—	—	—	—	—	—	—	82.1
Waste	—	—	—	—	—	—	—	—	—	—	68.5
Refrig.	—	—	—	—	—	—	—	—	—	—	7.47
Stationary	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	8.72	2.49	28.7	0.05	0.08	4.77	4.85	0.07	1.21	1.29	5,962

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,881
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	905
Strip Mall	—	—	—	—	—	—	—	—	—	—	159

General Office Building	—	—	—	—	—	—	—	—	—	—	86.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2,012
Total	—	—	—	—	—	—	—	—	—	—	7,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,881
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	905
Strip Mall	—	—	—	—	—	—	—	—	—	—	159
General Office Building	—	—	—	—	—	—	—	—	—	—	86.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2,012
Total	—	—	—	—	—	—	—	—	—	—	7,658
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	477
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	150
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.3
General Office Building	—	—	—	—	—	—	—	—	—	—	14.3

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	267
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	333
Total	—	—	—	—	—	—	—	—	—	—	1,268

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,881
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	905
Strip Mall	—	—	—	—	—	—	—	—	—	—	159
General Office Building	—	—	—	—	—	—	—	—	—	—	86.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2,012
Total	—	—	—	—	—	—	—	—	—	—	7,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,881

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	905
Strip Mall	—	—	—	—	—	—	—	—	—	—	159
General Office Building	—	—	—	—	—	—	—	—	—	—	86.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2,012
Total	—	—	—	—	—	—	—	—	—	—	7,658
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	477
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	150
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.3
General Office Building	—	—	—	—	—	—	—	—	—	—	14.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	267
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	333
Total	—	—	—	—	—	—	—	—	—	—	1,268

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	537
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.22	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	263
Total	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	800
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	537
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.22	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	263
Total	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	800
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	88.9
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	43.6
Total	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	132

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	537
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Recreational Swimming Pool	0.01	0.22	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	263
Total	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	800
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	537
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.01	0.22	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	263
Total	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	800
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	88.9
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Recreational Swimming Pool	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	43.6
Total	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	132

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.37	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Total	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Total	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	4.44	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.17	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Total	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.37	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Total	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Total	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	4.44	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.17	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Total	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	493
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	14.7
General Office Building	—	—	—	—	—	—	—	—	—	—	12.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	3.69
Total	—	—	—	—	—	—	—	—	—	—	620
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	493

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	14.7
General Office Building	—	—	—	—	—	—	—	—	—	—	12.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	3.69
Total	—	—	—	—	—	—	—	—	—	—	620
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	81.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	15.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.44
General Office Building	—	—	—	—	—	—	—	—	—	—	2.05
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.61
Total	—	—	—	—	—	—	—	—	—	—	103

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	395
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	76.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	11.8
General Office Building	—	—	—	—	—	—	—	—	—	—	9.90
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.95
Total	—	—	—	—	—	—	—	—	—	—	496
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	395
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	76.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	11.8
General Office Building	—	—	—	—	—	—	—	—	—	—	9.90
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.95
Total	—	—	—	—	—	—	—	—	—	—	496
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	65.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.95
General Office Building	—	—	—	—	—	—	—	—	—	—	1.64
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.49
Total	—	—	—	—	—	—	—	—	—	—	82.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,130
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	534
Strip Mall	—	—	—	—	—	—	—	—	—	—	29.7
General Office Building	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	50.5
Total	—	—	—	—	—	—	—	—	—	—	1,753
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,130
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	534
Strip Mall	—	—	—	—	—	—	—	—	—	—	29.7
General Office Building	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	50.5
Total	—	—	—	—	—	—	—	—	—	—	1,753
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	187
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.92
General Office Building	—	—	—	—	—	—	—	—	—	—	1.52
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	8.36
Total	—	—	—	—	—	—	—	—	—	—	290

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	267
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	126
Strip Mall	—	—	—	—	—	—	—	—	—	—	7.01
General Office Building	—	—	—	—	—	—	—	—	—	—	2.17
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	267
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	126
Strip Mall	—	—	—	—	—	—	—	—	—	—	7.01

General Office Building	—	—	—	—	—	—	—	—	—	—	2.17
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	414
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	44.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.16
General Office Building	—	—	—	—	—	—	—	—	—	—	0.36
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.97
Total	—	—	—	—	—	—	—	—	—	—	68.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1.29
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.16
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	7.47

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1.29
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.16
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	7.47

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Annual	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

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

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.9. 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
Total all Land Uses	5,861	5,861	5,861	2,139,265	37,263	37,263	37,263	13,600,995

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	5,861	5,861	5,861	2,139,265	37,263	37,263	37,263	13,600,995

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2207505.15	735,835	92,132	24,920	34,743

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Apartments High Rise	3,890,108	267	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	1,221,608	267	0.0489	0.0069	1,670,760
Strip Mall	214,703	267	0.0489	0.0069	0.00
General Office Building	116,591	267	0.0489	0.0069	0.00
Enclosed Parking with Elevator	2,180,898	267	0.0489	0.0069	0.00
Recreational Swimming Pool	2,717,525	267	0.0489	0.0069	818,688

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)
Apartments High Rise	3,890,108	267	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	1,221,608	267	0.0489	0.0069	1,670,760
Strip Mall	214,703	267	0.0489	0.0069	0.00
General Office Building	116,591	267	0.0489	0.0069	0.00
Enclosed Parking with Elevator	2,180,898	267	0.0489	0.0069	0.00

Recreational Swimming Pool	2,717,525	267	0.0489	0.0069	818,688

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	36,751,967	1,529,540
High Turnover (Sit Down Restaurant)	7,224,102	0.00
Strip Mall	1,111,088	0.00
General Office Building	933,102	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	277,973	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	29,401,573	1,223,632
High Turnover (Sit Down Restaurant)	5,779,282	0.00
Strip Mall	888,870	0.00
General Office Building	746,482	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	222,378	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	599	—
High Turnover (Sit Down Restaurant)	283	—

Strip Mall	15.8	—
General Office Building	4.88	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	26.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	141	—
High Turnover (Sit Down Restaurant)	66.8	—
Strip Mall	3.72	—
General Office Building	1.15	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	6.32	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	3.00	1.00	200	500	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546

Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0

Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see project description
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon intensity for construction years
Characteristics: Utility Information	Carbon intensity for 2034
Operations: Hearths	No fireplaces
Operations: Energy Use	All electric building with the exception of restaurant cooking equipment and propane usage for firepits and grills in pool area.

Buena Vista - Operations (No PDF) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Buena Vista - Operations (No PDF)
Operational Year	2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.06633285447674, -118.23535236392179
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4031
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.28

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
Apartments High Rise	986	Dwelling Unit	7.87	1,090,126	89,232	0.00	2,399	—

High Turnover (Sit Down Restaurant)	23.8	1000sqft	0.00	23,800	0.00	0.00	—	—
Strip Mall	15.0	1000sqft	0.00	15,000	0.00	0.00	—	—
General Office Building	5.25	1000sqft	0.00	5,250	0.00	0.00	—	—
Enclosed Parking with Elevator	1,477	Space	13.3	590,800	0.00	0.00	—	—
Recreational Swimming Pool	4.70	1000sqft	0.00	4,700	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54.7	22.7	211	0.35	1.03	31.1	32.1	1.00	7.90	8.90	46,960
Mit.	54.7	22.7	211	0.35	1.03	31.1	32.1	1.00	7.90	8.90	45,496
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	45.3	22.8	120	0.34	0.96	31.1	32.1	0.95	7.90	8.84	45,427
Mit.	45.3	22.8	120	0.34	0.96	31.1	32.1	0.95	7.90	8.84	43,963
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.4	20.2	177	0.34	0.84	30.8	31.6	0.82	7.81	8.64	45,389
Mit.	50.4	20.2	177	0.34	0.84	30.8	31.6	0.82	7.81	8.64	43,926
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.20	3.69	32.3	0.06	0.15	5.61	5.77	0.15	1.43	1.58	7,515
Mit.	9.20	3.69	32.3	0.06	0.15	5.61	5.77	0.15	1.43	1.58	7,272
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.2	9.34	118	0.30	0.15	31.1	31.2	0.14	7.90	8.04	31,183
Area	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	620
Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	54.7	22.7	211	0.35	1.03	31.1	32.1	1.00	7.90	8.90	46,960
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.1	10.2	110	0.29	0.15	31.1	31.2	0.14	7.90	8.04	29,914
Area	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	620

Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	45.3	22.8	120	0.34	0.96	31.1	32.1	0.95	7.90	8.84	45,427
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.0	10.2	113	0.29	0.15	30.8	30.9	0.14	7.81	7.95	30,267
Area	32.8	0.51	57.4	< 0.005	0.05	—	0.05	0.04	—	0.04	181
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	620
Waste	—	—	—	—	—	—	—	—	—	—	1,753
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	1.35	3.77	3.44	0.01	0.20	0.00	0.20	0.20	0.00	0.20	692
Total	50.4	20.2	177	0.34	0.84	30.8	31.6	0.82	7.81	8.64	45,389
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.91	1.87	20.6	0.05	0.03	5.61	5.64	0.03	1.43	1.45	5,011
Area	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Energy	0.06	1.04	0.69	0.01	0.08	—	0.08	0.08	—	0.08	1,959
Water	—	—	—	—	—	—	—	—	—	—	103
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	7.47
Stationary	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	9.20	3.69	32.3	0.06	0.15	5.61	5.77	0.15	1.43	1.58	7,515

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Mobile	16.2	9.34	118	0.30	0.15	31.1	31.2	0.14	7.90	8.04	31,183
Area	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	54.7	22.7	211	0.35	1.03	31.1	32.1	1.00	7.90	8.90	45,496
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.1	10.2	110	0.29	0.15	31.1	31.2	0.14	7.90	8.04	29,914
Area	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	45.3	22.8	120	0.34	0.96	31.1	32.1	0.95	7.90	8.84	43,963
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.0	10.2	113	0.29	0.15	30.8	30.9	0.14	7.81	7.95	30,267
Area	32.8	0.51	57.4	< 0.005	0.05	—	0.05	0.04	—	0.04	181
Energy	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	11,831
Water	—	—	—	—	—	—	—	—	—	—	496
Waste	—	—	—	—	—	—	—	—	—	—	414
Refrig.	—	—	—	—	—	—	—	—	—	—	45.1
Stationary	1.35	3.77	3.44	0.01	0.20	0.00	0.20	0.20	0.00	0.20	692
Total	50.4	20.2	177	0.34	0.84	30.8	31.6	0.82	7.81	8.64	43,926
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.91	1.87	20.6	0.05	0.03	5.61	5.64	0.03	1.43	1.45	5,011

Area	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Energy	0.06	1.04	0.69	0.01	0.08	—	0.08	0.08	—	0.08	1,959
Water	—	—	—	—	—	—	—	—	—	—	82.1
Waste	—	—	—	—	—	—	—	—	—	—	68.5
Refrig.	—	—	—	—	—	—	—	—	—	—	7.47
Stationary	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	9.20	3.69	32.3	0.06	0.15	5.61	5.77	0.15	1.43	1.58	7,272

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,397
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	574
Strip Mall	—	—	—	—	—	—	—	—	—	—	111

General Office Building	—	—	—	—	—	—	—	—	—	—	61.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	66.3
Total	—	—	—	—	—	—	—	—	—	—	4,825
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,397
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	574
Strip Mall	—	—	—	—	—	—	—	—	—	—	111
General Office Building	—	—	—	—	—	—	—	—	—	—	61.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	66.3
Total	—	—	—	—	—	—	—	—	—	—	4,825
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	397
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	18.3
General Office Building	—	—	—	—	—	—	—	—	—	—	10.3

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	267
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.0
Total	—	—	—	—	—	—	—	—	—	—	799

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,397
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	574
Strip Mall	—	—	—	—	—	—	—	—	—	—	111
General Office Building	—	—	—	—	—	—	—	—	—	—	61.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	66.3
Total	—	—	—	—	—	—	—	—	—	—	4,825
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,397

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	574
Strip Mall	—	—	—	—	—	—	—	—	—	—	111
General Office Building	—	—	—	—	—	—	—	—	—	—	61.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	1,615
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	66.3
Total	—	—	—	—	—	—	—	—	—	—	4,825
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	397
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	18.3
General Office Building	—	—	—	—	—	—	—	—	—	—	10.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	267
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.0
Total	—	—	—	—	—	—	—	—	—	—	799

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.14	2.47	1.05	0.02	0.20	—	0.20	0.20	—	0.20	3,145
High Turnover (Sit Down Restaurant)	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	725
Strip Mall	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.7
General Office Building	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.14	2.57	2.16	0.02	0.20	—	0.20	0.20	—	0.20	3,078
Total	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	7,006
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.14	2.47	1.05	0.02	0.20	—	0.20	0.20	—	0.20	3,145
High Turnover (Sit Down Restaurant)	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	725
Strip Mall	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.7
General Office Building	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.14	2.57	2.16	0.02	0.20	—	0.20	0.20	—	0.20	3,078
Total	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	7,006
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	521
High Turnover (Sit Down Restaurant)	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	120
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
General Office Building	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.61
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.03	0.47	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	510
Total	0.06	1.04	0.69	0.01	0.08	—	0.08	0.08	—	0.08	1,160

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.14	2.47	1.05	0.02	0.20	—	0.20	0.20	—	0.20	3,145
High Turnover (Sit Down Restaurant)	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	725
Strip Mall	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.7
General Office Building	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Recreational Swimming Pool	0.14	2.57	2.16	0.02	0.20	—	0.20	0.20	—	0.20	3,078
Total	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	7,006
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.14	2.47	1.05	0.02	0.20	—	0.20	0.20	—	0.20	3,145
High Turnover (Sit Down Restaurant)	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	725
Strip Mall	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	23.7
General Office Building	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.9
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Recreational Swimming Pool	0.14	2.57	2.16	0.02	0.20	—	0.20	0.20	—	0.20	3,078
Total	0.32	5.70	3.76	0.04	0.44	—	0.44	0.44	—	0.44	7,006
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	521
High Turnover (Sit Down Restaurant)	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	120
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.93
General Office Building	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.61
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Recreational Swimming Pool	0.03	0.47	0.39	< 0.005	0.04	—	0.04	0.04	—	0.04	510
Total	0.06	1.04	0.69	0.01	0.08	—	0.08	0.08	—	0.08	1,160

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.37	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Total	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Total	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	4.44	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.17	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Total	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.37	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Total	35.8	0.75	83.8	< 0.005	0.07	—	0.07	0.06	—	0.06	264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	24.3	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	—	—	—	—	—	—	—	—	—	—
Total	26.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	4.44	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.17	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9
Total	5.99	0.09	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	29.9

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	493
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	14.7
General Office Building	—	—	—	—	—	—	—	—	—	—	12.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	3.69
Total	—	—	—	—	—	—	—	—	—	—	620
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	493

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	95.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	14.7
General Office Building	—	—	—	—	—	—	—	—	—	—	12.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	3.69
Total	—	—	—	—	—	—	—	—	—	—	620
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	81.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	15.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.44
General Office Building	—	—	—	—	—	—	—	—	—	—	2.05
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.61
Total	—	—	—	—	—	—	—	—	—	—	103

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	395
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	76.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	11.8
General Office Building	—	—	—	—	—	—	—	—	—	—	9.90
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.95
Total	—	—	—	—	—	—	—	—	—	—	496
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	395
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	76.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	11.8
General Office Building	—	—	—	—	—	—	—	—	—	—	9.90
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.95
Total	—	—	—	—	—	—	—	—	—	—	496
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	65.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.95
General Office Building	—	—	—	—	—	—	—	—	—	—	1.64
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.49
Total	—	—	—	—	—	—	—	—	—	—	82.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,130
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	534
Strip Mall	—	—	—	—	—	—	—	—	—	—	29.7
General Office Building	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	50.5
Total	—	—	—	—	—	—	—	—	—	—	1,753
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,130
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	534
Strip Mall	—	—	—	—	—	—	—	—	—	—	29.7
General Office Building	—	—	—	—	—	—	—	—	—	—	9.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	50.5
Total	—	—	—	—	—	—	—	—	—	—	1,753
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	187
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.92
General Office Building	—	—	—	—	—	—	—	—	—	—	1.52
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	8.36
Total	—	—	—	—	—	—	—	—	—	—	290

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	267
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	126
Strip Mall	—	—	—	—	—	—	—	—	—	—	7.01
General Office Building	—	—	—	—	—	—	—	—	—	—	2.17
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	267
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	126
Strip Mall	—	—	—	—	—	—	—	—	—	—	7.01

General Office Building	—	—	—	—	—	—	—	—	—	—	2.17
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	414
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	44.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.16
General Office Building	—	—	—	—	—	—	—	—	—	—	0.36
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.97
Total	—	—	—	—	—	—	—	—	—	—	68.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1.29
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.16
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	7.47

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	7.81
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	37.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	0.01

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	45.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1.29
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.16
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	7.47

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Annual	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Total	2.46	6.88	6.28	0.01	0.36	0.00	0.36	0.36	0.00	0.36	1,263
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115
Total	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	115

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

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

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.9. 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
Total all Land Uses	6,896	6,896	6,896	2,517,040	43,840	43,840	43,840	16,001,600

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	6,896	6,896	6,896	2,517,040	43,840	43,840	43,840	16,001,600

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2207505.15	735,835	92,132	24,920	34,743

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Apartments High Rise	3,237,525	267	0.0489	0.0069	9,786,404
High Turnover (Sit Down Restaurant)	775,168	267	0.0489	0.0069	2,254,565
Strip Mall	149,348	267	0.0489	0.0069	73,862
General Office Building	83,626	267	0.0489	0.0069	105,482
Enclosed Parking with Elevator	2,180,898	267	0.0489	0.0069	0.00
Recreational Swimming Pool	89,525	267	0.0489	0.0069	9,578,688

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)
Apartments High Rise	3,237,525	267	0.0489	0.0069	9,786,404
High Turnover (Sit Down Restaurant)	775,168	267	0.0489	0.0069	2,254,565
Strip Mall	149,348	267	0.0489	0.0069	73,862
General Office Building	83,626	267	0.0489	0.0069	105,482
Enclosed Parking with Elevator	2,180,898	267	0.0489	0.0069	0.00

Recreational Swimming Pool	89,525	267	0.0489	0.0069	9,578,688

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	36,751,967	1,529,540
High Turnover (Sit Down Restaurant)	7,224,102	0.00
Strip Mall	1,111,088	0.00
General Office Building	933,102	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	277,973	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	29,401,573	1,223,632
High Turnover (Sit Down Restaurant)	5,779,282	0.00
Strip Mall	888,870	0.00
General Office Building	746,482	0.00
Enclosed Parking with Elevator	0.00	0.00
Recreational Swimming Pool	222,378	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	599	—
High Turnover (Sit Down Restaurant)	283	—

Strip Mall	15.8	—
General Office Building	4.88	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	26.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	141	—
High Turnover (Sit Down Restaurant)	66.8	—
Strip Mall	3.72	—
General Office Building	1.15	—
Enclosed Parking with Elevator	0.00	—
Recreational Swimming Pool	6.32	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	3.00	1.00	200	500	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3	annual days of extreme heat
Extreme Precipitation	6.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.0
AQ-PM	95.0
AQ-DPM	91.6
Drinking Water	92.5
Lead Risk Housing	72.8
Pesticides	0.00
Toxic Releases	77.5
Traffic	79.3
Effect Indicators	—
CleanUp Sites	98.2
Groundwater	82.5
Haz Waste Facilities/Generators	98.0
Impaired Water Bodies	72.2
Solid Waste	67.4
Sensitive Population	—
Asthma	26.3
Cardio-vascular	35.9
Low Birth Weights	96.5
Socioeconomic Factor Indicators	—
Education	96.2
Housing	57.4
Linguistic	87.9
Poverty	90.5
Unemployment	72.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	5.594764532
Employed	29.10304119
Median HI	0.628769408
Education	—
Bachelor's or higher	26.30565892
High school enrollment	100
Preschool enrollment	63.13358142
Transportation	—
Auto Access	1.052226357
Active commuting	95.7141024
Social	—
2-parent households	41.70409342
Voting	8.392146798
Neighborhood	—
Alcohol availability	44.16784294
Park access	46.67008854
Retail density	87.052483
Supermarket access	59.12998845
Tree canopy	24.00872578
Housing	—
Homeownership	4.414217888
Housing habitability	0.769921725
Low-inc homeowner severe housing cost burden	1.655331708
Low-inc renter severe housing cost burden	64.04465546

Uncrowded housing	5.889901193
Health Outcomes	—
Insured adults	12.17759528
Arthritis	15.6
Asthma ER Admissions	76.4
High Blood Pressure	9.1
Cancer (excluding skin)	68.9
Asthma	27.9
Coronary Heart Disease	7.5
Chronic Obstructive Pulmonary Disease	7.1
Diagnosed Diabetes	1.0
Life Expectancy at Birth	83.9
Cognitively Disabled	15.2
Physically Disabled	38.4
Heart Attack ER Admissions	89.4
Mental Health Not Good	13.3
Chronic Kidney Disease	5.2
Obesity	37.0
Pedestrian Injuries	84.4
Physical Health Not Good	3.7
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	99.2
Current Smoker	14.2
No Leisure Time for Physical Activity	1.7
Climate Change Exposures	—
Wildfire Risk	47.9
SLR Inundation Area	0.0

Children	50.1
Elderly	33.4
English Speaking	1.8
Foreign-born	95.4
Outdoor Workers	32.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	36.9
Traffic Density	71.6
Traffic Access	72.6
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	5.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	7.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Specific - see project description
Construction: Construction Phases	Project Specific - see construction assumptions
Construction: Off-Road Equipment	Project Specific - see construction assumptions
Construction: Trips and VMT	Project Specific - see construction assumptions
Construction: Electricity	Carbon intensity for construction years
Characteristics: Utility Information	Carbon intensity for 2034
Operations: Hearths	No fireplaces
Operations: Energy Use	Propane usage for firepits and grills in pool area.