# Appendix B

Air Quality and Greenhouse Gas Emissions

# 6136 Manchester

## SCEA

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# 6136 Manchester

SCEA

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

# AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODLOGY

**6136 Manchester Project**

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**Eyestone Environmental, LLC**

**August 2024**

# 6136 Manchester 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 6136 Manchester 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).

- 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:

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

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 61 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 will 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.

### (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, and water usage/wastewater generation.

### (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:

$$\text{Landscaping Equipment Emissions [lbs]} = \left( \Sigma_i \left( \text{Units} \times EF_{LE} \times A_{LE} \right)_i \right)$$

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) 2019 Residential Appliance Saturday Survey (RASS) and 2018–2030 Uncalibrated Commercial Sector Forecast.[4] The data is specific for Electricity Demand Forecast zone (EDFZ) and, therefore, Zone 16 was selected for the Project Site based on the ZIP Code tool.

*(a) 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 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:

[4] *CalEEMod Version 2022.1 Users Guide, Appendix C. Emission Calculation Details for CalEEMod. April 2022.*

Electricity:

Annual Emissions [$MTCO_2e$] = ( $\Sigma_i$ (Units × $D_E$ × $EF_E$ × GWP)$_i$ ) ÷ 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.

*(b) 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) = ( $\Sigma_i$ (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.

*(c) City of Los Angeles All-Electric Ordinance*

The Project would be required to comply with the City of LA's All-Electric ordinance which does not allow installation of natural gas-powered equipment (stoves, water heaters, space heating) for new construction with some exceptions. Restaurant uses would be exempt from this ordinance and be allowed to consume natural gas for cooking purposes. While this would decrease the natural gas usage for the Project, electricity usage would increase as a result.

The California Energy Commission (CEC) had conducted various energy surveys to develop energy consumption estimates for electric and natural gas end uses. Data from these surveys was used to calculate the equivalent electricity usage when switching from a natural gas end use, such as cooking, water heating and space heating.[5] As mentioned above, restaurant cooking uses are exempt from the All-Electric ordinance and were assumed to be powered by natural gas. CalEEMod by default, assumes sources typically powered by natural gas include space heating, water heating, dryers and cooking. Electricity usage rates for these sources (space heating, water heating, dryers and cooking) were obtained from the CEC 2019 RASS and Commercial Forecast to calculate equivalent electricity usage for the Project.

## (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

[5] *CAPCOA Handbook, Table E-15.1 and Table E-15.2*

Traffic Study prepared by Gibson Transportation Consulting 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 EMFAC2014.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

$$\text{Mobile Emissions [lbs]} = \left( \Sigma_i \left(\text{Units} \times \text{ADT} \times D_{TRIP} \times EF_i \right)\right.$$

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 Gibson Transportation Consulting. [6] The Los Angeles Department of Transportation (LADOT) VMT Calculator was used to calculate peak daily trip estimates.

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-

[6] *Transportation Assessment for 6136 Manchester Avenue Residential Project. Gibson Transportation Consulting, December 2022, revised July 2024.*

Use Development (MXD) model to calculate trip reductions for multi-use developments.[7] 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:

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

[7] *Environmental Protection Agency, Mixed-Use Trip Generation Model. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed December 16, 2019.*

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:

$$\text{Annual Emissions } [MTCO_2e] = \left( \Sigma_i \left( \text{Units} \times D_{MSW} \times EF_{MSW} \times GWP \right)_i \right) \div 1.1023$$

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.[8]

[8] *City of Los Angeles, Sustainable City pLAn, Waste & Landfills, http://plan.lamayor.org/portfolio/waste-landfills-3rd, accessed February 21, 2019.*

## (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:

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.

## (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.

# 6136 Manchester

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## Appendix B-2-Air Quality Worksheets

- Appendix B-2:  Air Quality Worksheets and Modeling Output Files
    - Appendix B-2.1:  Summary of Air Pollutant Emissions
    - Appendix B-2.2:  Localized Significance Threshold (LST) Calculation Worksheet
    - Appendix B-2.3:  Summary of Construction Assumptions
    - Appendix B-2.4:  CO Hotspot Analysis

**AQ SUMMARY OF EMISSIONS WINTER**

**Construction Emissions (Unmitigated)**

| Regional (Daily) Unmitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | 3 | 56 | 51 | <1 | 9 | 3 |
| 2027 | 3 | 21 | 33 | <1 | 2 | 1 |
| 2028 | 32 | 18 | 26 | <1 | 2 | 1 |
| 2029 | 34 | 9 | 11 | <1 | 1 | 0 |
| MAX | 34 | 56 | 51 | <1 | 9 | 3 |
| **Threshold** | **75** | **100** | **550** | **150** | **150** | **55** |
| **Difference** | **(41)** | **(44)** | **(499)** | **(150)** | **(141)** | **(52)** |
| **Impact** | **No** | **No** | **No** | **No** | **No** | **No** |

**Construction Emissions (With Project Design Features)**

| Regional (Daily) Mitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | 2 | 39 | 58 | <1 | 9 | 3 |
| 2027 | 1 | 9 | 38 | <1 | 2 | <1 |
| 2028 | 32 | 8 | 30 | <1 | 2 | <1 |
| 2029 | 34 | 5 | 16 | <1 | <1 | <1 |
| MAX | 34 | 39 | 58 | <1 | 9 | 3 |
| **Threshold** | **75** | **100** | **550** | **150** | **150** | **55** |
| **Difference** | **(41)** | **(61)** | **(492)** | **(150)** | **(141)** | **(52)** |
| **Impact** | **No** | **No** | **No** | **No** | **No** | **No** |
| Percent Reduction: | -1% | -30% | 12% | 0% | -8% | -19% |

| Localized (Daily) Unmitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | | 25 | 36 | | 1 | <1 |
| 2027 | | 19 | 28 | | <1 | <1 |
| 2028 | | 16 | 20 | | <1 | <1 |
| 2029 | | 8 | 10 | | <1 | <1 |
| MAX | | 25 | 36 | | 1 | <1 |
| **Threshold** | | 124 | 1067 | | 9 | 5 |
| **Difference** | | **(99)** | **(1,031)** | | **(8)** | **(4)** |
| **Impact** | | **No** | **No** | | **No** | **No** |

| Localized (Daily) Mitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | | 9 | 43 | | <1 | <1 |
| 2027 | | 7 | 34 | | <1 | <1 |
| 2028 | | 7 | 24 | | <1 | <1 |
| 2029 | | 4 | 15 | | <1 | <1 |
| MAX | | 9 | 43 | | <1 | <1 |
| **Threshold** | | 124 | 1067 | | 9 | 5 |
| **Difference** | | **(115)** | **(1,025)** | | **(8)** | **(5)** |
| **Impact** | | **No** | **No** | | **No** | **No** |
| Percent Reduction: | | -66% | 17% | | -63% | -72% |

**Operation Emissions (Without Project Design Features)**

| Existing Regional Emissions (Existing Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | <1 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 2 | 2 | 18 | <1 | 4 | <1 |
| Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 |
| Total | 3 | 2 | 19 | <1 | 4 | 1 |

| Existing Regional Emissions (Buidout Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | <1 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 2 | 1 | 14 | <1 | 4 | <1 |
| Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 |
| Total | 2 | 2 | 15 | <1 | 4 | 1 |

| Project Regional Emissions (Buildout Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | 10 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 9 | 7 | 67 | <1 | 17 | 4 |
| Emergency Generator | <1 | <1 | 1 | <1 | <1 | <1 |
| Total | 19 | 7 | 69 | <1 | 17 | 5 |

| Incremental Regional Emissions (Project Less Existing) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | 9 | <1 | <1 | <1 | <1 | <1 |
| Energy | -<1 | -<1 | -<1 | -<1 | -<1 | -<1 |
| Mobile | 7 | 5 | 53 | <1 | 14 | 4 |
| Emergency Generator | <1 | <1 | 1 | <1 | <1 | <1 |
| Total | 17 | 5 | 54 | <1 | 14 | 4 |
| **Threshold** | **55** | **55** | **550** | **150** | **150** | **55** |
| **Difference** | **(38)** | **(50)** | **(496)** | **(150)** | **(136)** | **(51)** |
| **Impact** | No | No | No | No | No | No |

| Project Localized (Buildout Year) | | | | | | |
|---|---|---|---|---|---|---|
| Onsite Total | | <1 | 1 | | <1 | <1 |
| **Threshold** | | **124** | **1067** | | **2** | **1** |
| **Difference** | | **(124)** | **(1066)** | | **(2)** | **(1)** |
| **Impact** | | **No** | **No** | | **No** | **No** |

**AQ SUMMARY OF EMISSIONS SUMMER**

**Construction Emissions (Unmitigated)**

| Regional (Daily) Unmitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | 3 | 55 | 52 | <1 | 9 | 3 |
| 2027 | 3 | 21 | 33 | <1 | 2 | 1 |
| 2028 | 2 | 17 | 26 | <1 | 2 | 1 |
| MAX | 3 | 55 | 52 | <1 | 9 | 3 |
| **Threshold** | **75** | **100** | **550** | **150** | **150** | **55** |
| **Difference** | **(72)** | **(45)** | **(498)** | **(150)** | **(141)** | **(52)** |
| **Impact** | **No** | **No** | **No** | **No** | **No** | **No** |

| Localized (Daily) Unmitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | | 25 | 36 | | 1 | <1 |
| 2027 | | 19 | 28 | | <1 | <1 |
| 2028 | | 16 | 20 | | <1 | <1 |
| MAX | | 25 | 36 | | 1 | <1 |
| **Threshold** | | 124 | 1067 | | 9 | 5 |
| **Difference** | | **(99)** | **(1,031)** | | **(7)** | **(4)** |
| **Impact** | | **No** | **No** | | **No** | **No** |

**Construction Emissions (With Project Design Features)**

| Regional (Daily) Mitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | 2 | 38 | 58 | <1 | 9 | 3 |
| 2027 | 1 | 9 | 39 | <1 | 2 | <1 |
| 2028 | <1 | 8 | 31 | <1 | 2 | <1 |
| MAX | 2 | 38 | 58 | <1 | 9 | 3 |
| **Threshold** | **75** | **100** | **550** | **150** | **150** | **55** |
| **Difference** | **(73)** | **(62)** | **(492)** | **(150)** | **(141)** | **(52)** |
| **Impact** | **No** | **No** | **No** | **No** | **No** | **No** |
| Percent Reduction: | -49% | -30% | 12% | 0% | -8% | -19% |

| Localized (Daily) Mitigated | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| 2026 | | 9 | 43 | | <1 | <1 |
| 2027 | | 7 | 34 | | <1 | <1 |
| 2028 | | 7 | 24 | | <1 | <1 |
| MAX | | 9 | 43 | | <1 | <1 |
| **Threshold** | | 124 | 1067 | | 9 | 5 |
| **Difference** | | **(115)** | **(1,025)** | | **(8)** | **(5)** |
| **Impact** | | **No** | **No** | | **No** | **No** |
| Percent Reduction: | | -66% | 17% | | -26% | -72% |

**Operation Emissions (Without Project Design Features)**

| Existing Regional Emissions (Existing Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | <1 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 2 | 2 | 20 | <1 | 4 | <1 |
| Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 |
| Total | 3 | 2 | 21 | <1 | 4 | 1 |

| Existing Regional Emissions (Buidout Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | <1 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 2 | 1 | 15 | <1 | 4 | <1 |
| Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 |
| Total | 3 | 1 | 17 | <1 | 4 | 1 |

| Project Regional Emissions (Buildout Year) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | 14 | <1 | 35 | <1 | <1 | <1 |
| Energy | <1 | <1 | <1 | <1 | <1 | <1 |
| Mobile | 9 | 6 | 72 | <1 | 17 | 4 |
| Emergency Generator | <1 | <1 | 1 | <1 | <1 | <1 |
| Total | 23 | 7 | 109 | <1 | 17 | 5 |

| Incremental Regional Emissions (Project Less Existing) | ROG | $NO_x$ | CO | SO2 | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| Area | 13 | <1 | 34 | <1 | <1 | <1 |
| Energy | -<1 | -<1 | -<1 | -<1 | -<1 | -<1 |
| Mobile | 7 | 5 | 57 | <1 | 14 | 4 |
| Emergency Generator | <1 | <1 | 1 | <1 | <1 | <1 |
| Total | 21 | 5 | 93 | <1 | 14 | 4 |
| **Threshold** | **55** | **55** | **550** | **150** | **150** | **55** |
| **Difference** | **(34)** | **(50)** | **(457)** | **(150)** | **(136)** | **(51)** |
| **Impact** | No | No | No | No | No | No |

| Project Localized (Buildout Year) | | | | | | |
|---|---|---|---|---|---|---|
| Onsite Total | | 1 | 36 | | <1 | <1 |
| **Threshold** | | **124** | **1067** | | **2** | **1** |
| **Difference** | | **(124)** | **(1032)** | | **(2)** | **(1)** |
| **Impact** | | **No** | **No** | | **No** | **No** |

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

**Southwest Los Angeles County Coastal NO2 Monitoring Data**

| SRA | City | Design Value 2014-2016 | 98th percentile, ppb 2021 | 2022 | 2023 | Threshold (ppb) | Allowable Increase (ppb) |
|---|---|---|---|---|---|---|---|
| 3 | Los Angeles Cou | 44 | 48 | 45 | 40 | 100 | 56 |

| SRA | City | Design Value 2006-2008 | Max Hourly, ppb 2021 | 2022 | 2023 | Threshold (ppb) | Allowable Increase (ppb) |
|---|---|---|---|---|---|---|---|
| 3 | Los Angeles Cou | 120 | 63 | 51 | 44 | 180 | 60 |

| Max Hourly vs. 98th Percentile Ratio (Allowable Increase) | 93% |
|---|---|

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

**LST Threshold (SRA 3, 25 meter receptor)**

| 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 | 91 | 85 | 664 | 5 | 3 | 1 | 1 | |
| 2 | 131 | 122 | 967 | 8 | 5 | 2 | 1 | |
| 5 | 197 | 184 | 1796 | 15 | 8 | 4 | 2 | |
| **2.4** | **133** | **124** | **1067** | **9** | **5** | **2** | **1** | **<----Interpolated Value** |

# 6136 Manchester

**Air Quality and Noise Analysis Assumptions**

| Construction Details | Start Date | End Date | Duration (Months) | Work Days | Max Daily Employee Trips | Max Daily Hauls | Total Hauls | Max Daily Deliveries |
|---|---|---|---|---|---|---|---|---|
| Overall Duration | 8/3/2026 | 1/29/2029 | 30.00 | 780 | | | | |
| Demolition | 8/3/2026 | 8/30/2026 | 1 | 20 | 25 | 20 | 320 | ----- |
| Grading/Excavation | 9/1/2026 | 11/30/2026 | 3 | 65 | 75 | 125 | 4,953 | 5 |
| Building Foundation | 12/1/2026 | 7/30/2027 | 8 | 174 | 75 | | | 20 |
| Building Construction | 8/1/2027 | 9/29/2028 | 14 | 305 | 100 | ----- | ----- | 20 |
| Paving/Landscape | 1/1/2029 | 1/29/2029 | 1 | 21 | 20 | ----- | ----- | 5 |
| Architectural Coating | 10/1/2028 | 1/29/2029 | 4 | 86 | | | | |

| Site Acreage | |
|---|---|
| | 2.42 |
| **Demolition Quantities** | |
| Building Square Footage (SF) | 21,910 |
| Parking (SF) | 83,366 |
| Parking (spaces) | 118 |
| **Import/Export Quantities during Grading** | **(CY)** |
| Import | - |
| Export | 79,244 |

| Landfill Location | Distance (miles) |
|---|---|
| Sunshine Canyon | 30 |

| Equipment | Demo | Grading/ Excavation | Mat Foundation | Foundation | Building Construction | Paving/ Landscape |
|---|---|---|---|---|---|---|
| Air Compressor | | | | 1 | | |
| Aerial Lift | | | | | 2 | |
| Bore/Drill Rig | | 2 | | | | |
| Cement and Mortar Mixers | | 2 | | 2 | | |
| Concrete/Industrial Saws | 1 | | | | | |
| Cranes (Tower) | | | | | 1 | |
| Cranes (Mobile) | | 2 | | 2 | 2 | 1 |
| Crawler Tractors | | | | | | |
| Crushing/Proc. Equipment | 1 | | | | | |
| Excavators | 1 | 2 | | 2 | | |
| Forklifts | | | | 2 | 4 | |
| Generator Sets | | 1 | | | | |
| Graders | | 1 | | | | |
| Off-Highway Tractors | | | | | | |
| Water Truck | 1 | 1 | | | | |
| Pavers | | | | | | |
| Paving Equipment | | | | | | 4 |
| Pumps | | 1 | | 2 | 1 | |
| Plate Compactors | | | | | | |
| Rollers | | | | | | |
| Rough Terrain Forklifts | | 1 | | 2 | | |
| Rubber Tired Dozers | | | | | | |
| Rubber Tired Loaders | 1 | 1 | | | | |
| Scrapers | | | | | | |
| Signal Boards | | | | 2 | 2 | 2 |
| Skid Steer Loaders | | | | | | |
| Surfacing Equipment | | | | | | 1 |
| Tractors/Loaders/Backhoes | | 2 | | 2 | 2 | 1 |
| Trenchers | | | | 1 | | |
| Welders | | | | | 2 | |
| Other ( ) | | | | | | |
| Total Pieces | 5 | 16 | 0 | 18 | 16 | 9 |

# 6136 Manchester Ave

## CO Hotspots

**CO Hotspots Analysis - Maximum Impacted Intersection**

| | Sepulveda Boulevard and Manchester Avenue | |
|---|---|---|
| | Future with Project | |
| **Direction** | AM | PM |
| Total Intersection Volume | 5977 | 6182 |
| Max Daily Trips[a] | 95,785 | 100,032 |
| Caltrans K Factor (%)[b] | 6.24% | 6.18% |

[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 405 Freeway Monitoring Station, Postmile 28 which is closest to the Project site. Please refer to: https://dot.ca.gov/programs/traffic-operations/census

# 6136 Manchester

## SCEA

## Appendix B-3-Greenhouse Gas Emissions Worksheets

- Appendix B-3:  Greenhouse Gas Worksheets and Modeling Output Files
    - Appendix B-3.1:  GHG Modeling Parameters and Summary of Emissions
        - GHG Emissions Summary
        - GHG Parameters and Summary
            - VMT Calculations
            - Electric Vehicle Charging Calculations
            - SB 100

# 6136 Manchester

## Operational Emissions Summary (GHG)

| CalEEMod Output Summary | Project |
|---|---|
| **Construction Year** | **$CO_2e$** |
| 2026 | 1,167 |
| 2027 | 862 |
| 2028 | 587 |
| 2029 | 32 |
| Total | 2,648 |
| Atomized over 30 Years | 88 |
| **Baseline (Baseline Year)[a]** | **$CO_2e$** |
| Area | 0 |
| Energy (Natural Gas) | 114 |
| Mobile | 715 |
| Emergency Generators | 0 |
| Solid Waste | 7 |
| Water/Wastewater | 7 |
| Refrig. | 1 |
| Total | 845 |
| **Baseline (Buildout Year)[a]** | **$CO_2e$** |
| Area | 0 |
| Energy (Natural Gas) | 114 |
| Mobile | 642 |
| Emergency Generators | 0 |
| Solid Waste | 7 |
| Water/Wastewater | 7 |
| Refrig. | 1 |
| Total | 772 |
| **Buildout (Buildout Year)[b]** | |
| Area | 12 |
| Energy (Natural Gas and Electricity)[b] | 748 |
| Mobile | 2,978 |
| Electric Vehicle Charging Credit | (59) |
| Emergency Generators | 23 |
| Solid Waste | 32 |
| Water/Wastewater | 45 |
| Refrig. | 3 |
| Construction | 88 |
| Total | **3,870** |
| **Project (Buildout less Baseline)** | |
| Area | 12 |
| Energy (Natural Gas and Electricity) | 634 |
| Mobile | 2,336 |
| Electric Vehicle Charging Credit | (59) |
| Emergency Generators | 23 |
| Solid Waste | 24 |
| Water/Wastewater | 37 |
| Refrig. | 3 |
| Construction | 88 |
| **Total** | **3,098** |

[a] Existing Uses

[b] Please refer to CalEEMod outputs for Future uses

## 6136 Manchester

3/29/2021

LADOT VMT Calculator Data

**VMT Summary**

| | Existing | Proposed Project | With Mitigation | Project Weekday Trips | Weekend Trips | Weekend Vs. Weekday Ratio |
|---|---|---|---|---|---|---|
| Daily Trips | 703 | 3,300 | 3,300 | 1 | 1 | 1.00 |
| Daily VMT | 5,359 | 24,351 | 24,351 | | | |

**Project without TDM (MXD Data)**

| | Unadjusted Trips | MXD Adjustment | MXD Trips | Average Trip Length | Unadjusted VMT | MXD VMT | Reduction vs. Unadjusted MXD (%) |
|---|---|---|---|---|---|---|---|
| Home Based Work Production | 435 | -12.0% | 383 | 8.4 | 3,654 | 3,217 | |
| Home Based Other Production | 1,205 | -26.0% | 892 | 6.6 | 7,953 | 5,887 | |
| Non-Home Based Other Production | 916 | -2.8% | 890 | 7.6 | 6,962 | 6,764 | |
| Home-Based Work Attraction | 78 | -29.5% | 55 | 10.1 | 788 | 556 | |
| Home-Based Other Attraction | 1,385 | -21.1% | 1093 | 6.9 | 9,557 | 7,542 | |
| Non-Home Based Other Attraction | 490 | -3.5% | 473 | 8.4 | 4,116 | 3,973 | 15% |
| Total | 4,509 | | | | 33,030 | 27,939 | |

**Project with TDM (MXD Data)**

| | | *Proposed Project* | | *Project with Mitigation Measures* | | |
|---|---|---|---|---|---|---|
| | TDM Adjustment | Project Trips | Project VMT | TDM Adjustment | Mitigated Trips | Mitigated VMT |
| Home Based Work Production | -12.8% | 334 | 2,804 | -12.8% | 334 | 2,804 |
| Home Based Other Production | -12.8% | 777 | 5,131 | -12.8% | 777 | 5,131 |
| Non-Home Based Other Production | -12.8% | 776 | 5,895 | -12.8% | 776 | 5,895 |
| Home-Based Work Attraction | -12.8% | 48 | 485 | -12.8% | 48 | 485 |
| Home-Based Other Attraction | -12.8% | 953 | 6,573 | -12.8% | 953 | 6,573 |
| Non-Home Based Other Attraction | -12.8% | 412 | 3,463 | -12.8% | 412 | 3,463 |
| Total | | 3,300 | 24,351 | | 3,300 | 24,351 |
| Employee VMT | | | 7,935 | | | 485 |
| Employee VMT (percent of total) | | | | | | 0.019917047 |
| Residential VMT | | | | | | 7,935 |
| Residential VMT (percent of total) | | | | | | 0.325859308 |

Source: Gibson Transportation

**GHG Emissions Reductions for Resident 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] | 0.22 | MTCO2E/MWh |
| Fuel Economy of Electric Vehicle[2] | 0.41 | kWh/mile |
| Electric Vehicle GHG Emissions | 89.6 | grams/mile |
| GHG Emissions from Employee Miles Traveled (CalEEMod)[3] | 293.5 | grams/mile |
| GHG Emissions Reduction from Additional Electric Vehicles, per mile | 203.9 | grams/mile |

**Step 2: Estimating Project Residential-Related VMT GHG Emissions**

| | | |
|---|---|---|
| Resident Average Yearly VMT with TDM and PDFs[4] | 2,896,275 | miles/year |
| Percent of Resident Miles Driven in Electric Vehicles due to this Measure | 10.0% | |
| Resident VMT that is Displaced by Evs due to this Measure | 289,628 | miles/year |
| GHG Resident Reduction from Resident Electric Vehicles | **59** | MTCO2E/MWh |

| | |
|---|---|
| Energy Usage | **118,471** |

Notes:
1) CO2 intensity factor reflects a 2029 RPS for LADWP (375 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/).

## 6136 Manchester

**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 |

| Build Out Year | Carbon Intensity (lbs/MWh) |
|---|---|
| 2024 | 483 |
| 2029 | 375 |

# 6136 Manchester

## SCEA

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

- Appendix B-4:  CalEEMod Outputs
  - Baseline (Existing Year)
  - Baseline (Buildout Year)
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  - Project Operations

# 6136 Manchester - Existing Baseline Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | 6136 Manchester - Existing Baseline |
| Operational Year | 2024 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 17.6 |
| Location | 6136 Manchester Ave, Los Angeles, CA 90045, USA |
| County | Los Angeles-South Coast |
| City | Los Angeles |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4577 |
| EDFZ | 16 |
| Electric Utility | Los Angeles Department of Water & Power |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.26 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | 19.6 | 1000sqft | 0.45 | 19,650 | 5,000 | 0.00 | — | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | 2.17 | 1000sqft | 0.05 | 2,165 | 0.00 | 0.00 | — | — |
| Parking Lot | 118 | Space | 1.06 | 0.00 | 0.00 | 0.00 | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| 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. | 3.15 | 2.03 | 21.0 | 0.04 | 0.05 | 3.80 | 3.85 | 0.05 | 0.96 | 1.01 | 5,394 |
| Mit. | 3.15 | 2.03 | 21.0 | 0.04 | 0.05 | 3.80 | 3.85 | 0.05 | 0.96 | 1.01 | 5,250 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 2.96 | 2.19 | 18.6 | 0.04 | 0.05 | 3.80 | 3.84 | 0.05 | 0.96 | 1.01 | 5,190 |
| Mit. | 2.96 | 2.19 | 18.6 | 0.04 | 0.05 | 3.80 | 3.84 | 0.05 | 0.96 | 1.01 | 5,046 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.05 | 2.22 | 19.7 | 0.04 | 0.05 | 3.75 | 3.80 | 0.05 | 0.95 | 1.00 | 5,250 |
| Mit. | 3.05 | 2.22 | 19.7 | 0.04 | 0.05 | 3.75 | 3.80 | 0.05 | 0.95 | 1.00 | 5,106 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.56 | 0.40 | 3.60 | 0.01 | 0.01 | 0.69 | 0.69 | 0.01 | 0.17 | 0.18 | 869 |
| Mit. | 0.56 | 0.40 | 3.60 | 0.01 | 0.01 | 0.69 | 0.69 | 0.01 | 0.17 | 0.18 | 845 |
| % 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 | 2.46 | 1.78 | 19.9 | 0.04 | 0.03 | 3.80 | 3.83 | 0.03 | 0.96 | 0.99 | 4,464 |
| Area | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 3.15 | 2.03 | 21.0 | 0.04 | 0.05 | 3.80 | 3.85 | 0.05 | 0.96 | 1.01 | 5,394 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.42 | 1.95 | 18.4 | 0.04 | 0.03 | 3.80 | 3.83 | 0.03 | 0.96 | 0.99 | 4,264 |
| Area | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.96 | 2.19 | 18.6 | 0.04 | 0.05 | 3.80 | 3.84 | 0.05 | 0.96 | 1.01 | 5,190 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.40 | 1.97 | 18.9 | 0.04 | 0.03 | 3.75 | 3.78 | 0.03 | 0.95 | 0.98 | 4,321 |
| Area | 0.64 | 0.01 | 0.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 2.68 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 3.05 | 2.22 | 19.7 | 0.04 | 0.05 | 3.75 | 3.80 | 0.05 | 0.95 | 1.00 | 5,250 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.44 | 0.36 | 3.45 | 0.01 | 0.01 | 0.69 | 0.69 | < 0.005 | 0.17 | 0.18 | 715 |
| Area | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Energy | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 114 |
| Water | — | — | — | — | — | — | — | — | — | — | 7.25 |
| Waste | — | — | — | — | — | — | — | — | — | — | 31.2 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 0.57 |
| Total | 0.56 | 0.40 | 3.60 | 0.01 | 0.01 | 0.69 | 0.69 | 0.01 | 0.17 | 0.18 | 869 |

## 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 | 2.46 | 1.78 | 19.9 | 0.04 | 0.03 | 3.80 | 3.83 | 0.03 | 0.96 | 0.99 | 4,464 |
| Area | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 3.15 | 2.03 | 21.0 | 0.04 | 0.05 | 3.80 | 3.85 | 0.05 | 0.96 | 1.01 | 5,250 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.42 | 1.95 | 18.4 | 0.04 | 0.03 | 3.80 | 3.83 | 0.03 | 0.96 | 0.99 | 4,264 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.96 | 2.19 | 18.6 | 0.04 | 0.05 | 3.80 | 3.84 | 0.05 | 0.96 | 1.01 | 5,046 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.40 | 1.97 | 18.9 | 0.04 | 0.03 | 3.75 | 3.78 | 0.03 | 0.95 | 0.98 | 4,321 |
| Area | 0.64 | 0.01 | 0.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 2.68 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 3.05 | 2.22 | 19.7 | 0.04 | 0.05 | 3.75 | 3.80 | 0.05 | 0.95 | 1.00 | 5,106 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.44 | 0.36 | 3.45 | 0.01 | 0.01 | 0.69 | 0.69 | < 0.005 | 0.17 | 0.18 | 715 |
| Area | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Energy | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 114 |
| Water | — | — | — | — | — | — | — | — | — | — | 7.25 |
| Waste | — | — | — | — | — | — | — | — | — | — | 7.37 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 0.57 |
| Total | 0.56 | 0.40 | 3.60 | 0.01 | 0.01 | 0.69 | 0.69 | 0.01 | 0.17 | 0.18 | 845 |

# 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 42.0 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 15.6 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 8.94 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | 66.5 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 42.0 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 15.6 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 8.94 |
| Total | — | — | — | — | — | — | — | — | — | — | 66.5 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 36.9 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 10.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 47.9 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 36.9 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 10.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 47.9 |

## 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 | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.16 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Total | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Total | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.02 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Total | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |

### 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 | 0.47 | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.16 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Total | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Total | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.02 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Total | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.37 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.88 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.25 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.37 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.88 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.25 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 142 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 47.0 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 189 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 142 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 47.0 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 189 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 23.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 7.79 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 31.2 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 33.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.1 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 33.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.1 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.53 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.84 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.37 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 0.56 |
| Total | — | — | — | — | — | — | — | — | — | — | 0.57 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 0.56 |
| Total | — | — | — | — | — | — | — | — | — | — | 0.57 |

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

### 4.8.2. Mitigated

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

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

| Equipment Type | ROG | NOx | CO | SO2 | 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 | 703 | 703 | 703 | 256,595 | 5,359 | 5,359 | 5,359 | 1,956,035 |

### 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 | 703 | 703 | 703 | 256,595 | 5,359 | 5,359 | 5,359 | 1,956,035 |

## 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) |
|---|---|---|---|---|
| 0 | 0.00 | 32,723 | 10,908 | 2,776 |

### 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) |
|---|---|---|---|---|---|
| Automobile Care Center | 190,335 | 483 | 0.0489 | 0.0069 | 694,362 |
| Fast Food Restaurant with Drive Thru | 70,514 | 483 | 0.0489 | 0.0069 | 205,090 |
| Parking Lot | 40,524 | 483 | 0.0489 | 0.0069 | 0.00 |

### 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) |
|---|---|---|---|---|---|
| Automobile Care Center | 190,335 | 483 | 0.0489 | 0.0069 | 694,362 |
| Fast Food Restaurant with Drive Thru | 70,514 | 483 | 0.0489 | 0.0069 | 205,090 |
| Parking Lot | 40,524 | 483 | 0.0489 | 0.0069 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Automobile Care Center | 1,848,694 | 70,123 |
| Fast Food Restaurant with Drive Thru | 657,150 | 0.00 |
| Parking Lot | 0.00 | 0.00 |

### 5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Automobile Care Center | 1,848,694 | 70,123 |
| Fast Food Restaurant with Drive Thru | 657,150 | 0.00 |

| | | |
|---|---|---|
| Parking Lot | 0.00 | 0.00 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Automobile Care Center | 75.1 | — |
| Fast Food Restaurant with Drive Thru | 24.9 | — |
| Parking Lot | 0.00 | — |

### 5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Automobile Care Center | 17.7 | — |
| Fast Food Restaurant with Drive Thru | 5.89 | — |
| Parking Lot | 0.00 | — |

## 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 |
|---|---|---|---|---|---|---|---|
| Automobile Care Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

### 5.14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Automobile Care Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

## 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 |
|---|---|---|---|---|---|---|

### 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 | 5.27 | annual days of extreme heat |
| Extreme Precipitation | 5.20 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | 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 | 35.2 |
| AQ-PM | 73.2 |
| AQ-DPM | 92.2 |
| Drinking Water | 52.7 |
| Lead Risk Housing | 68.5 |
| Pesticides | 0.00 |
| Toxic Releases | 84.4 |
| Traffic | 72.6 |
| Effect Indicators | — |
| CleanUp Sites | 64.4 |
| Groundwater | 75.5 |
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 9.67 |
| Sensitive Population | — |
| Asthma | 18.8 |
| Cardio-vascular | 44.1 |
| Low Birth Weights | 23.1 |
| Socioeconomic Factor Indicators | — |
| Education | 2.30 |
| Housing | 70.2 |
| Linguistic | 22.9 |
| Poverty | 31.3 |
| Unemployment | 0.33 |

## 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 | 48.32542025 |
| Employed | 65.58449891 |
| Median HI | 65.19953805 |
| Education | — |
| Bachelor's or higher | 76.02977031 |
| High school enrollment | 100 |
| Preschool enrollment | 6.762479148 |
| Transportation | — |
| Auto Access | 58.83485179 |
| Active commuting | 62.4534839 |
| Social | — |
| 2-parent households | 70.51199795 |
| Voting | 56.08879764 |
| Neighborhood | — |
| Alcohol availability | 24.11138201 |
| Park access | 81.35506224 |
| Retail density | 62.7229565 |
| Supermarket access | 58.60387527 |
| Tree canopy | 46.38778391 |
| Housing | — |
| Homeownership | 59.33530091 |
| Housing habitability | 44.78378032 |
| Low-inc homeowner severe housing cost burden | 7.442576671 |
| Low-inc renter severe housing cost burden | 34.42833312 |

| | |
|---|---|
| Uncrowded housing | 78.31387142 |
| Health Outcomes | — |
| Insured adults | 67.86860003 |
| Arthritis | 55.6 |
| Asthma ER Admissions | 59.4 |
| High Blood Pressure | 59.9 |
| Cancer (excluding skin) | 32.7 |
| Asthma | 65.7 |
| Coronary Heart Disease | 57.7 |
| Chronic Obstructive Pulmonary Disease | 59.8 |
| Diagnosed Diabetes | 64.3 |
| Life Expectancy at Birth | 42.2 |
| Cognitively Disabled | 29.3 |
| Physically  Disabled | 54.0 |
| Heart Attack ER Admissions | 41.3 |
| Mental Health Not Good | 61.1 |
| Chronic Kidney Disease | 73.0 |
| Obesity | 56.8 |
| Pedestrian Injuries | 71.3 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 35.4 |
| Current Smoker | 61.3 |
| No Leisure Time for Physical Activity | 69.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |

| | |
|---|---|
| Children | 61.0 |
| Elderly | 50.9 |
| English Speaking | 67.4 |
| Foreign-born | 16.2 |
| Outdoor Workers | 88.7 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 31.3 |
| Traffic Density | 52.3 |
| Traffic Access | 87.4 |
| Other Indices | — |
| Hardship | 26.2 |
| Other Decision Support | — |
| 2016 Voting | 52.1 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 36.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Characteristics: Utility Information | SB 100 for 2024 |
| Operations: Refrigerants | Conservatively removed supermarket refrigerant uses from automobile care center |

# 6136 Manchester - Existing Buildout Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | 6136 Manchester - Existing Buildout |
| Operational Year | 2029 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 17.6 |
| Location | 6136 Manchester Ave, Los Angeles, CA 90045, USA |
| County | Los Angeles-South Coast |
| City | Los Angeles |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4577 |
| EDFZ | 16 |
| Electric Utility | Los Angeles Department of Water & Power |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.26 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | 19.6 | 1000sqft | 0.45 | 19,650 | 5,000 | 0.00 | — | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | 2.17 | 1000sqft | 0.05 | 2,165 | 0.00 | 0.00 | — | — |
| Parking Lot | 118 | Space | 1.06 | 0.00 | 0.00 | 0.00 | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| 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. | 2.64 | 1.50 | 16.6 | 0.04 | 0.04 | 3.79 | 3.84 | 0.04 | 0.96 | 1.00 | 4,932 |
| Mit. | 2.64 | 1.50 | 16.6 | 0.04 | 0.04 | 3.79 | 3.84 | 0.04 | 0.96 | 1.00 | 4,787 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 2.46 | 1.61 | 14.5 | 0.04 | 0.04 | 3.79 | 3.83 | 0.04 | 0.96 | 1.00 | 4,754 |
| Mit. | 2.46 | 1.61 | 14.5 | 0.04 | 0.04 | 3.79 | 3.83 | 0.04 | 0.96 | 1.00 | 4,610 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 2.55 | 1.62 | 15.5 | 0.04 | 0.04 | 3.75 | 3.79 | 0.04 | 0.95 | 0.99 | 4,806 |
| Mit. | 2.55 | 1.62 | 15.5 | 0.04 | 0.04 | 3.75 | 3.79 | 0.04 | 0.95 | 0.99 | 4,662 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.47 | 0.30 | 2.83 | 0.01 | 0.01 | 0.68 | 0.69 | 0.01 | 0.17 | 0.18 | 796 |
| Mit. | 0.47 | 0.30 | 2.83 | 0.01 | 0.01 | 0.68 | 0.69 | 0.01 | 0.17 | 0.18 | 772 |
| % 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 | 1.94 | 1.25 | 15.5 | 0.04 | 0.02 | 3.79 | 3.82 | 0.02 | 0.96 | 0.98 | 4,001 |
| Area | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.64 | 1.50 | 16.6 | 0.04 | 0.04 | 3.79 | 3.84 | 0.04 | 0.96 | 1.00 | 4,932 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.92 | 1.36 | 14.3 | 0.04 | 0.02 | 3.79 | 3.82 | 0.02 | 0.96 | 0.98 | 3,828 |
| Area | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.46 | 1.61 | 14.5 | 0.04 | 0.04 | 3.79 | 3.83 | 0.04 | 0.96 | 1.00 | 4,754 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.90 | 1.37 | 14.7 | 0.04 | 0.02 | 3.75 | 3.77 | 0.02 | 0.95 | 0.97 | 3,877 |
| Area | 0.64 | 0.01 | 0.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 2.68 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 189 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.55 | 1.62 | 15.5 | 0.04 | 0.04 | 3.75 | 3.79 | 0.04 | 0.95 | 0.99 | 4,806 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.35 | 0.25 | 2.68 | 0.01 | < 0.005 | 0.68 | 0.69 | < 0.005 | 0.17 | 0.18 | 642 |
| Area | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Energy | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 114 |
| Water | — | — | — | — | — | — | — | — | — | — | 7.25 |
| Waste | — | — | — | — | — | — | — | — | — | — | 31.2 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 0.57 |
| Total | 0.47 | 0.30 | 2.83 | 0.01 | 0.01 | 0.68 | 0.69 | 0.01 | 0.17 | 0.18 | 796 |

## 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 | 1.94 | 1.25 | 15.5 | 0.04 | 0.02 | 3.79 | 3.82 | 0.02 | 0.96 | 0.98 | 4,001 |
| Area | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.64 | 1.50 | 16.6 | 0.04 | 0.04 | 3.79 | 3.84 | 0.04 | 0.96 | 1.00 | 4,787 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.92 | 1.36 | 14.3 | 0.04 | 0.02 | 3.79 | 3.82 | 0.02 | 0.96 | 0.98 | 3,828 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.46 | 1.61 | 14.5 | 0.04 | 0.04 | 3.79 | 3.83 | 0.04 | 0.96 | 1.00 | 4,610 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.90 | 1.37 | 14.7 | 0.04 | 0.02 | 3.75 | 3.77 | 0.02 | 0.95 | 0.97 | 3,877 |
| Area | 0.64 | 0.01 | 0.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 2.68 |
| Energy | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 691 |
| Water | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Total | 2.55 | 1.62 | 15.5 | 0.04 | 0.04 | 3.75 | 3.79 | 0.04 | 0.95 | 0.99 | 4,662 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.35 | 0.25 | 2.68 | 0.01 | < 0.005 | 0.68 | 0.69 | < 0.005 | 0.17 | 0.18 | 642 |
| Area | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Energy | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 114 |
| Water | — | — | — | — | — | — | — | — | — | — | 7.25 |
| Waste | — | — | — | — | — | — | — | — | — | — | 7.37 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 0.57 |
| Total | 0.47 | 0.30 | 2.83 | 0.01 | 0.01 | 0.68 | 0.69 | 0.01 | 0.17 | 0.18 | 772 |

# 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 42.0 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 15.6 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 8.94 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | 66.5 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 254 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 93.9 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 54.0 |
| Total | — | — | — | — | — | — | — | — | — | — | 402 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 42.0 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 15.6 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 8.94 |
| Total | — | — | — | — | — | — | — | — | — | — | 66.5 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 36.9 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 10.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 47.9 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | 0.01 | 0.19 | 0.16 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 223 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 65.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.24 | 0.20 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 289 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 36.9 |
| Fast Food Restaurant with Drive Thru | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 10.9 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 47.9 |

## 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 | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.16 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Total | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Total | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.02 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Total | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |

### 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 | 0.47 | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.16 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Total | 0.69 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.92 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.47 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.06 | — | — | — | — | — | — | — | — | — | — |
| Total | 0.53 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.02 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |
| Total | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.44 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.37 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.88 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.25 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 32.5 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.4 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 43.8 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.37 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.88 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.25 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 142 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 47.0 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 189 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 142 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 47.0 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 189 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 23.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 7.79 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 31.2 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 33.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.1 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 33.4 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 11.1 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 5.53 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.84 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 7.37 |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 0.56 |
| Total | — | — | — | — | — | — | — | — | — | — | 0.57 |

### 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) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3.38 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.42 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobile Care Center | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 0.56 |
| Total | — | — | — | — | — | — | — | — | — | — | 0.57 |

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

### 4.8.2. Mitigated

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

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

| Equipment Type | ROG | NOx | CO | SO2 | 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 | 703 | 703 | 703 | 256,595 | 5,359 | 5,359 | 5,359 | 1,956,035 |

### 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 | 703 | 703 | 703 | 256,595 | 5,359 | 5,359 | 5,359 | 1,956,035 |

## 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) |
|---|---|---|---|---|
| 0 | 0.00 | 32,723 | 10,908 | 2,776 |

### 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) |
|---|---|---|---|---|---|
| Automobile Care Center | 190,335 | 483 | 0.0489 | 0.0069 | 694,362 |
| Fast Food Restaurant with Drive Thru | 70,514 | 483 | 0.0489 | 0.0069 | 205,090 |
| Parking Lot | 40,524 | 483 | 0.0489 | 0.0069 | 0.00 |

### 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) |
|---|---|---|---|---|---|
| Automobile Care Center | 190,335 | 483 | 0.0489 | 0.0069 | 694,362 |
| Fast Food Restaurant with Drive Thru | 70,514 | 483 | 0.0489 | 0.0069 | 205,090 |
| Parking Lot | 40,524 | 483 | 0.0489 | 0.0069 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Automobile Care Center | 1,848,694 | 70,123 |
| Fast Food Restaurant with Drive Thru | 657,150 | 0.00 |
| Parking Lot | 0.00 | 0.00 |

### 5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Automobile Care Center | 1,848,694 | 70,123 |
| Fast Food Restaurant with Drive Thru | 657,150 | 0.00 |

| | | |
|---|---|---|
| Parking Lot | 0.00 | 0.00 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Automobile Care Center | 75.1 | — |
| Fast Food Restaurant with Drive Thru | 24.9 | — |
| Parking Lot | 0.00 | — |

### 5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Automobile Care Center | 17.7 | — |
| Fast Food Restaurant with Drive Thru | 5.89 | — |
| Parking Lot | 0.00 | — |

## 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 |
|---|---|---|---|---|---|---|---|
| Automobile Care Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

### 5.14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Automobile Care Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

## 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 |
|---|---|---|---|---|---|---|

### 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 | 5.27 | annual days of extreme heat |
| Extreme Precipitation | 5.20 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | 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 | 35.2 |
| AQ-PM | 73.2 |
| AQ-DPM | 92.2 |
| Drinking Water | 52.7 |
| Lead Risk Housing | 68.5 |
| Pesticides | 0.00 |
| Toxic Releases | 84.4 |
| Traffic | 72.6 |
| Effect Indicators | — |
| CleanUp Sites | 64.4 |
| Groundwater | 75.5 |
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 9.67 |
| Sensitive Population | — |
| Asthma | 18.8 |
| Cardio-vascular | 44.1 |
| Low Birth Weights | 23.1 |
| Socioeconomic Factor Indicators | — |
| Education | 2.30 |
| Housing | 70.2 |
| Linguistic | 22.9 |
| Poverty | 31.3 |
| Unemployment | 0.33 |

## 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 | 48.32542025 |
| Employed | 65.58449891 |
| Median HI | 65.19953805 |
| Education | — |
| Bachelor's or higher | 76.02977031 |
| High school enrollment | 100 |
| Preschool enrollment | 6.762479148 |
| Transportation | — |
| Auto Access | 58.83485179 |
| Active commuting | 62.4534839 |
| Social | — |
| 2-parent households | 70.51199795 |
| Voting | 56.08879764 |
| Neighborhood | — |
| Alcohol availability | 24.11138201 |
| Park access | 81.35506224 |
| Retail density | 62.7229565 |
| Supermarket access | 58.60387527 |
| Tree canopy | 46.38778391 |
| Housing | — |
| Homeownership | 59.33530091 |
| Housing habitability | 44.78378032 |
| Low-inc homeowner severe housing cost burden | 7.442576671 |
| Low-inc renter severe housing cost burden | 34.42833312 |

| | |
|---|---|
| Uncrowded housing | 78.31387142 |
| Health Outcomes | — |
| Insured adults | 67.86860003 |
| Arthritis | 55.6 |
| Asthma ER Admissions | 59.4 |
| High Blood Pressure | 59.9 |
| Cancer (excluding skin) | 32.7 |
| Asthma | 65.7 |
| Coronary Heart Disease | 57.7 |
| Chronic Obstructive Pulmonary Disease | 59.8 |
| Diagnosed Diabetes | 64.3 |
| Life Expectancy at Birth | 42.2 |
| Cognitively Disabled | 29.3 |
| Physically  Disabled | 54.0 |
| Heart Attack ER Admissions | 41.3 |
| Mental Health Not Good | 61.1 |
| Chronic Kidney Disease | 73.0 |
| Obesity | 56.8 |
| Pedestrian Injuries | 71.3 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 35.4 |
| Current Smoker | 61.3 |
| No Leisure Time for Physical Activity | 69.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |

| | |
|---|---|
| Children | 61.0 |
| Elderly | 50.9 |
| English Speaking | 67.4 |
| Foreign-born | 16.2 |
| Outdoor Workers | 88.7 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 31.3 |
| Traffic Density | 52.3 |
| Traffic Access | 87.4 |
| Other Indices | — |
| Hardship | 26.2 |
| Other Decision Support | — |
| 2016 Voting | 52.1 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 36.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Characteristics: Utility Information | SB 100 for 2029 |
| Operations: Refrigerants | Conservatively removed supermarket refrigerant uses from automobile care center |

# 6136 Manchester - Construction 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 | 6136 Manchester - Construction |
| Construction Start Date | 8/3/2026 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 17.6 |
| Location | 6136 Manchester Ave, Los Angeles, CA 90045, USA |
| County | Los Angeles-South Coast |
| City | Los Angeles |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4577 |
| 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 Mid Rise | 489 | Dwelling Unit | 2.40 | 400,795 | 12,451 | 0.00 | 1,159 | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 10.7 | 1000sqft | 0.00 | 10,747 | 0.00 | 0.00 | — | — |
| Strip Mall | 5.37 | 1000sqft | 0.00 | 5,373 | 0.00 | 0.00 | — | — |
| Enclosed Parking with Elevator | 549 | Space | 4.94 | 219,600 | 0.00 | 0.00 | — | — |
| Recreational Swimming Pool | 0.86 | 1000sqft | 0.00 | 865 | 0.00 | 0.00 | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-5 | Use Advanced Engine Tiers |
| Water | W-7 | Adopt a Water Conservation Strategy |
| Waste | S-1/S-2 | Implement Waste Reduction Plan |

## 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. | 3.31 | 54.7 | 52.1 | 0.24 | 1.30 | 8.18 | 9.48 | 1.22 | 2.18 | 3.40 | 34,840 |
| Mit. | 1.69 | 38.1 | 58.4 | 0.24 | 0.59 | 8.18 | 8.77 | 0.57 | 2.18 | 2.75 | 34,840 |
| % Reduced | 49% | 30% | -12% | — | 55% | — | 8% | 53% | — | 19% | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 33.9 | 56.0 | 51.5 | 0.24 | 1.30 | 8.18 | 9.48 | 1.22 | 2.18 | 3.40 | 34,738 |
| Mit. | 33.5 | 39.4 | 57.8 | 0.24 | 0.59 | 8.18 | 8.77 | 0.57 | 2.18 | 2.75 | 34,738 |
| % Reduced | 1% | 30% | -12% | — | 55% | — | 8% | 53% | — | 19% | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 6.90 | 14.2 | 21.3 | 0.05 | 0.46 | 1.65 | 1.96 | 0.43 | 0.43 | 0.72 | 7,049 |
| Mit. | 6.31 | 8.17 | 25.0 | 0.05 | 0.13 | 1.65 | 1.78 | 0.12 | 0.43 | 0.55 | 7,111 |
| % Reduced | 9% | 42% | -17% | — | 72% | — | 9% | 71% | — | 23% | -1% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.26 | 2.59 | 3.89 | 0.01 | 0.08 | 0.30 | 0.36 | 0.08 | 0.08 | 0.13 | 1,167 |
| Mit. | 1.15 | 1.49 | 4.56 | 0.01 | 0.02 | 0.30 | 0.32 | 0.02 | 0.08 | 0.10 | 1,177 |
| % Reduced | 9% | 42% | -17% | -1% | 72% | — | 9% | 71% | — | 23% | -1% |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 3.31 | 54.7 | 52.1 | 0.24 | 1.30 | 8.18 | 9.48 | 1.22 | 2.18 | 3.40 | 34,840 |
| 2027 | 2.51 | 20.9 | 33.2 | 0.06 | 0.71 | 1.85 | 2.42 | 0.65 | 0.42 | 0.98 | 7,804 |
| 2028 | 2.08 | 17.4 | 26.3 | 0.05 | 0.51 | 1.85 | 2.36 | 0.47 | 0.42 | 0.89 | 6,687 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 3.28 | 56.0 | 51.5 | 0.24 | 1.30 | 8.18 | 9.48 | 1.22 | 2.18 | 3.40 | 34,738 |
| 2027 | 2.50 | 21.0 | 32.6 | 0.06 | 0.71 | 1.85 | 2.42 | 0.65 | 0.42 | 0.98 | 7,747 |
| 2028 | 32.2 | 17.5 | 25.5 | 0.05 | 0.51 | 1.85 | 2.36 | 0.47 | 0.42 | 0.89 | 6,614 |
| 2029 | 33.9 | 8.71 | 10.6 | 0.03 | 0.32 | 0.40 | 0.71 | 0.29 | 0.09 | 0.38 | 3,388 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.82 | 12.2 | 12.2 | 0.05 | 0.30 | 1.65 | 1.96 | 0.28 | 0.43 | 0.72 | 7,049 |
| 2027 | 1.68 | 14.2 | 21.3 | 0.04 | 0.46 | 1.09 | 1.55 | 0.43 | 0.26 | 0.68 | 5,207 |
| 2028 | 6.90 | 9.35 | 13.7 | 0.03 | 0.27 | 0.97 | 1.25 | 0.25 | 0.22 | 0.47 | 3,544 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2029 | 1.93 | 0.50 | 0.61 | < 0.005 | 0.02 | 0.02 | 0.04 | 0.02 | 0.01 | 0.02 | 195 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.15 | 2.23 | 2.23 | 0.01 | 0.06 | 0.30 | 0.36 | 0.05 | 0.08 | 0.13 | 1,167 |
| 2027 | 0.31 | 2.59 | 3.89 | 0.01 | 0.08 | 0.20 | 0.28 | 0.08 | 0.05 | 0.12 | 862 |
| 2028 | 1.26 | 1.71 | 2.51 | < 0.005 | 0.05 | 0.18 | 0.23 | 0.05 | 0.04 | 0.09 | 587 |
| 2029 | 0.35 | 0.09 | 0.11 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 32.3 |

## 2.3. Construction Emissions by Year, Mitigated

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

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 1.69 | 38.1 | 58.4 | 0.24 | 0.59 | 8.18 | 8.77 | 0.57 | 2.18 | 2.75 | 34,840 |
| 2027 | 1.19 | 8.78 | 39.0 | 0.06 | 0.21 | 1.85 | 1.99 | 0.21 | 0.42 | 0.55 | 7,804 |
| 2028 | 0.97 | 8.16 | 30.6 | 0.05 | 0.13 | 1.85 | 1.99 | 0.13 | 0.42 | 0.55 | 6,687 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 1.67 | 39.4 | 57.8 | 0.24 | 0.59 | 8.18 | 8.77 | 0.57 | 2.18 | 2.75 | 34,738 |
| 2027 | 1.18 | 8.91 | 38.3 | 0.06 | 0.21 | 1.85 | 1.99 | 0.21 | 0.42 | 0.55 | 7,747 |
| 2028 | 32.2 | 8.27 | 29.8 | 0.05 | 0.13 | 1.85 | 1.99 | 0.13 | 0.42 | 0.55 | 6,614 |
| 2029 | 33.5 | 4.79 | 15.8 | 0.03 | 0.17 | 0.40 | 0.57 | 0.16 | 0.09 | 0.25 | 3,388 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.40 | 8.17 | 14.2 | 0.05 | 0.12 | 1.65 | 1.78 | 0.12 | 0.43 | 0.55 | 7,111 |
| 2027 | 0.78 | 6.19 | 25.0 | 0.04 | 0.13 | 1.09 | 1.22 | 0.12 | 0.26 | 0.38 | 5,207 |
| 2028 | 6.31 | 4.42 | 16.0 | 0.03 | 0.07 | 0.97 | 1.05 | 0.07 | 0.22 | 0.29 | 3,544 |
| 2029 | 1.90 | 0.28 | 0.91 | < 0.005 | 0.01 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 195 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.07 | 1.49 | 2.59 | 0.01 | 0.02 | 0.30 | 0.32 | 0.02 | 0.08 | 0.10 | 1,177 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2027 | 0.14 | 1.13 | 4.56 | 0.01 | 0.02 | 0.20 | 0.22 | 0.02 | 0.05 | 0.07 | 862 |
| 2028 | 1.15 | 0.81 | 2.93 | < 0.005 | 0.01 | 0.18 | 0.19 | 0.01 | 0.04 | 0.05 | 587 |
| 2029 | 0.35 | 0.05 | 0.17 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 32.3 |

# 3. Construction Emissions Details

## 3.1. Demolition (2026) - 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 | 1.16 | 9.69 | 15.5 | 0.02 | 0.42 | — | 0.42 | 0.39 | — | 0.39 | 2,378 |
| Demolition | — | — | — | — | — | 0.72 | 0.72 | — | 0.11 | 0.11 | — |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.53 | 0.85 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 130 |
| Demolition | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 2.15 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.10 | 0.16 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 21.6 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 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 | 0.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.10 | 1.61 | 0.00 | 0.00 | 0.33 | 0.33 | 0.00 | 0.08 | 0.08 | 344 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.05 | 4.63 | 1.72 | 0.03 | 0.05 | 1.11 | 1.17 | 0.05 | 0.30 | 0.36 | 4,255 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.08 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | 18.1 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | 233 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 38.6 |

## 3.2. Demolition (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.37 | 4.55 | 24.5 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 3,500 |
| Demolition | — | — | — | — | — | 0.72 | 0.72 | — | 0.11 | 0.11 | — |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.02 | 0.25 | 1.34 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 192 |
| Demolition | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 2.15 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.24 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 31.8 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 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 | 0.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.10 | 1.61 | 0.00 | 0.00 | 0.33 | 0.33 | 0.00 | 0.08 | 0.08 | 344 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.05 | 4.63 | 1.72 | 0.03 | 0.05 | 1.11 | 1.17 | 0.05 | 0.30 | 0.36 | 4,255 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.08 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | 18.1 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | 233 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 38.6 |

## 3.3. Grading (2026) - 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 | 2.61 | 23.4 | 34.9 | 0.06 | 0.97 | — | 0.97 | 0.89 | — | 0.89 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.08 | 1.81 | 1.38 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 231 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.61 | 23.4 | 34.9 | 0.06 | 0.97 | — | 0.97 | 0.89 | — | 0.89 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.07 | 1.89 | 1.42 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 235 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.47 | 4.16 | 6.22 | 0.01 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | 1,186 |
| Dust From Material Movement | — | — | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.01 | 0.33 | 0.25 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.4 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.76 | 1.14 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 196 |
| Dust From Material Movement | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — |
| Onsite truck | < 0.005 | 0.06 | 0.05 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | 0.28 | 0.29 | 4.84 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 1,031 |
| Vendor | 0.01 | 0.34 | 0.17 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 326 |
| Hauling | 0.33 | 28.9 | 10.8 | 0.17 | 0.33 | 6.95 | 7.28 | 0.33 | 1.90 | 2.23 | 26,593 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.33 | 4.13 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 975 |
| Vendor | 0.01 | 0.36 | 0.17 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 326 |
| Hauling | 0.31 | 30.1 | 10.8 | 0.17 | 0.33 | 6.95 | 7.28 | 0.33 | 1.90 | 2.23 | 26,545 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.06 | 0.77 | 0.00 | 0.00 | 0.17 | 0.17 | 0.00 | 0.04 | 0.04 | 176 |
| Vendor | < 0.005 | 0.06 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 58.0 |
| Hauling | 0.06 | 5.43 | 1.92 | 0.03 | 0.06 | 1.23 | 1.29 | 0.06 | 0.34 | 0.40 | 4,730 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | 29.2 |
| Vendor | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 9.61 |
| Hauling | 0.01 | 0.99 | 0.35 | 0.01 | 0.01 | 0.22 | 0.23 | 0.01 | 0.06 | 0.07 | 783 |

## 3.4. Grading (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 6.75 | 41.2 | 0.06 | 0.25 | — | 0.25 | 0.24 | — | 0.24 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.08 | 1.81 | 1.38 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 231 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 6.75 | 41.2 | 0.06 | 0.25 | — | 0.25 | 0.24 | — | 0.24 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.07 | 1.89 | 1.42 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 235 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | 1.20 | 7.34 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 1,186 |
| Dust From Material Movement | — | — | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.01 | 0.33 | 0.25 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.4 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.22 | 1.34 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 196 |
| Dust From Material Movement | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — |
| Onsite truck | < 0.005 | 0.06 | 0.05 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.29 | 4.84 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 1,031 |
| Vendor | 0.01 | 0.34 | 0.17 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 326 |
| Hauling | 0.33 | 28.9 | 10.8 | 0.17 | 0.33 | 6.95 | 7.28 | 0.33 | 1.90 | 2.23 | 26,593 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.33 | 4.13 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 975 |
| Vendor | 0.01 | 0.36 | 0.17 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 326 |
| Hauling | 0.31 | 30.1 | 10.8 | 0.17 | 0.33 | 6.95 | 7.28 | 0.33 | 1.90 | 2.23 | 26,545 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.06 | 0.77 | 0.00 | 0.00 | 0.17 | 0.17 | 0.00 | 0.04 | 0.04 | 176 |
| Vendor | < 0.005 | 0.06 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 58.0 |
| Hauling | 0.06 | 5.43 | 1.92 | 0.03 | 0.06 | 1.23 | 1.29 | 0.06 | 0.34 | 0.40 | 4,730 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | 29.2 |
| Vendor | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 9.61 |
| Hauling | 0.01 | 0.99 | 0.35 | 0.01 | 0.01 | 0.22 | 0.23 | 0.01 | 0.06 | 0.07 | 783 |

## 3.5. Building Foundation (2026) - 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 | 2.26 | 19.9 | 27.9 | 0.05 | 0.76 | — | 0.76 | 0.70 | — | 0.70 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.1 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 1.20 | 1.70 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | 332 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.22 | 0.31 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 55.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.33 | 4.13 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 975 |
| Vendor | 0.04 | 1.44 | 0.68 | 0.01 | 0.02 | 0.34 | 0.36 | 0.01 | 0.09 | 0.10 | 1,302 |
| 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 | 0.26 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | 60.1 |
| Vendor | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | 79.1 |
| 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 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | 9.95 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 13.1 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.6. Building Foundation (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.1 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.42 | 2.04 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 332 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.08 | 0.37 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 55.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.33 | 4.13 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 975 |
| Vendor | 0.04 | 1.44 | 0.68 | 0.01 | 0.02 | 0.34 | 0.36 | 0.01 | 0.09 | 0.10 | 1,302 |
| 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 | 0.26 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | 60.1 |
| Vendor | < 0.005 | 0.09 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | 79.1 |
| 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 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | 9.95 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 13.1 |
| 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. Building Foundation (2027) - 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 | 2.19 | 19.0 | 27.9 | 0.05 | 0.70 | — | 0.70 | 0.64 | — | 0.64 | 5,479 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 34.9 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.19 | 19.0 | 27.9 | 0.05 | 0.70 | — | 0.70 | 0.64 | — | 0.64 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.6 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.91 | 7.86 | 11.5 | 0.02 | 0.29 | — | 0.29 | 0.27 | — | 0.27 | 2,262 |
| Onsite truck | < 0.005 | 0.12 | 0.09 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 1.43 | 2.10 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 375 |
| Onsite truck | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.26 | 4.50 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 1,011 |
| Vendor | 0.04 | 1.32 | 0.63 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,278 |
| 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 | 0.26 | 0.32 | 3.82 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 956 |
| Vendor | 0.04 | 1.37 | 0.64 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,275 |
| 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 | 0.11 | 0.13 | 1.66 | 0.00 | 0.00 | 0.40 | 0.40 | 0.00 | 0.09 | 0.09 | 401 |
| Vendor | 0.02 | 0.57 | 0.26 | < 0.005 | < 0.005 | 0.14 | 0.14 | < 0.005 | 0.04 | 0.04 | 527 |
| 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 | 0.02 | 0.02 | 0.30 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | 66.4 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | 0.10 | 0.05 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | 87.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.8. Building Foundation (2027) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 34.9 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.6 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.36 | 2.86 | 13.9 | 0.02 | 0.08 | — | 0.08 | 0.08 | — | 0.08 | 2,262 |
| Onsite truck | < 0.005 | 0.12 | 0.09 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.52 | 2.53 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | 375 |
| Onsite truck | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.26 | 4.50 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 1,011 |
| Vendor | 0.04 | 1.32 | 0.63 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,278 |
| 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 | 0.26 | 0.32 | 3.82 | 0.00 | 0.00 | 0.98 | 0.98 | 0.00 | 0.23 | 0.23 | 956 |
| Vendor | 0.04 | 1.37 | 0.64 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,275 |
| 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 | 0.11 | 0.13 | 1.66 | 0.00 | 0.00 | 0.40 | 0.40 | 0.00 | 0.09 | 0.09 | 401 |
| Vendor | 0.02 | 0.57 | 0.26 | < 0.005 | < 0.005 | 0.14 | 0.14 | < 0.005 | 0.04 | 0.04 | 527 |
| 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 | 0.02 | 0.02 | 0.30 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | 66.4 |
| Vendor | < 0.005 | 0.10 | 0.05 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | 87.2 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.9. Building Construction (2027) - 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 | 1.76 | 16.3 | 19.9 | 0.04 | 0.56 | — | 0.56 | 0.51 | — | 0.51 | 4,075 |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.76 | 16.3 | 19.9 | 0.04 | 0.56 | — | 0.56 | 0.51 | — | 0.51 | 4,075 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.53 | 4.89 | 5.96 | 0.01 | 0.17 | — | 0.17 | 0.15 | — | 0.15 | 1,220 |
| Onsite truck | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | 11.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.10 | 0.89 | 1.09 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 202 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 1.91 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.35 | 0.35 | 6.01 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,349 |
| Vendor | 0.04 | 1.32 | 0.63 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,278 |
| 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 | 0.35 | 0.43 | 5.09 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,275 |
| Vendor | 0.04 | 1.37 | 0.64 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,275 |
| 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 | 0.10 | 0.13 | 1.60 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | 388 |
| Vendor | 0.01 | 0.41 | 0.19 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.03 | 0.03 | 382 |
| 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 | 0.02 | 0.02 | 0.29 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | 64.2 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | 63.3 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.10. Building Construction (2027) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | 4,075 |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | 4,075 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | 1.88 | 7.24 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 1,220 |
| Onsite truck | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | 11.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.34 | 1.32 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 202 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 1.91 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.35 | 0.35 | 6.01 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,349 |
| Vendor | 0.04 | 1.32 | 0.63 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,278 |
| 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 | 0.35 | 0.43 | 5.09 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,275 |
| Vendor | 0.04 | 1.37 | 0.64 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,275 |
| 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 | 0.10 | 0.13 | 1.60 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | 388 |
| Vendor | 0.01 | 0.41 | 0.19 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.03 | 0.03 | 382 |
| 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 | 0.02 | 0.02 | 0.29 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | 64.2 |
| Vendor | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | 63.3 |
| 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 (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 | 1.69 | 15.5 | 19.9 | 0.04 | 0.50 | — | 0.50 | 0.46 | — | 0.46 | 4,076 |
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 37.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.69 | 15.5 | 19.9 | 0.04 | 0.50 | — | 0.50 | 0.46 | — | 0.46 | 4,076 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.4 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.90 | 8.29 | 10.6 | 0.02 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | 2,178 |
| Onsite truck | 0.01 | 0.15 | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.01 | 0.01 | 20.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 1.51 | 1.94 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | 361 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 3.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.34 | 0.34 | 5.64 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,323 |
| Vendor | 0.03 | 1.26 | 0.61 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,249 |
| 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 | 0.34 | 0.39 | 4.80 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,252 |
| Vendor | 0.03 | 1.31 | 0.61 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,247 |
| 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 | 0.18 | 0.21 | 2.68 | 0.00 | 0.00 | 0.69 | 0.69 | 0.00 | 0.16 | 0.16 | 679 |
| Vendor | 0.01 | 0.70 | 0.32 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05 | 0.05 | 666 |
| 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 | 0.49 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | 112 |
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | 110 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.12. Building Construction (2028) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | 4,076 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 37.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | 4,076 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.4 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.31 | 3.36 | 12.9 | 0.02 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | 2,178 |
| Onsite truck | 0.01 | 0.15 | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.01 | 0.01 | 20.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.61 | 2.36 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 361 |
| Onsite truck | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 3.36 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.34 | 0.34 | 5.64 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,323 |
| Vendor | 0.03 | 1.26 | 0.61 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,249 |
| 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 | 0.34 | 0.39 | 4.80 | 0.00 | 0.00 | 1.31 | 1.31 | 0.00 | 0.31 | 0.31 | 1,252 |
| Vendor | 0.03 | 1.31 | 0.61 | 0.01 | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | 1,247 |
| 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 | 0.18 | 0.21 | 2.68 | 0.00 | 0.00 | 0.69 | 0.69 | 0.00 | 0.16 | 0.16 | 679 |
| Vendor | 0.01 | 0.70 | 0.32 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05 | 0.05 | 666 |
| 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 | 0.49 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | 112 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | 110 |
| 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. 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 | 1.04 | 8.26 | 9.47 | 0.03 | 0.31 | — | 0.31 | 0.29 | — | 0.29 | 2,828 |
| Paving | 0.62 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01 | 0.01 | 9.47 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.48 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 163 |
| Paving | 0.04 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.09 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 26.9 |
| 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 | 0.09 |
| 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 | 0.01 | 0.31 | 0.15 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 304 |
| 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 | 14.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 17.5 |
| 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 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 2.38 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 2.89 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.14. Paving (2029) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.64 | 4.34 | 14.7 | 0.03 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | 2,828 |
| Paving | 0.62 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01 | 0.01 | 9.47 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.25 | 0.85 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 163 |
| Paving | 0.04 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.01 | 0.05 | 0.15 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 26.9 |
| 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 | 0.09 |
| 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 | 0.01 | 0.31 | 0.15 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02 | 0.03 | 304 |
| 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 | 14.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 17.5 |
| 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 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 2.38 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 2.89 |
| 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. Architectural Coating (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) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 5.79 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.06 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 |

## 3.16. Architectural Coating (2028) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 5.79 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.06 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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. Architectural Coating (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) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.83 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.33 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 |

## 3.18. Architectural Coating (2029) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.83 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.33 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — |

### 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

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 8/3/2026 | 8/30/2026 | 5.00 | 20.0 | — |
| Grading | Grading | 9/1/2026 | 11/30/2026 | 5.00 | 65.0 | — |
| Building Foundation | Building Construction | 12/1/2026 | 7/30/2027 | 5.00 | 174 | — |
| Building Construction | Building Construction | 8/1/2027 | 9/29/2028 | 5.00 | 305 | — |
| Paving | Paving | 1/1/2029 | 1/29/2029 | 5.00 | 21.0 | — |
| Architectural Coating | Architectural Coating | 10/1/2028 | 1/29/2029 | 5.00 | 86.0 | — |

## 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 | Other Construction Equipment | Diesel | Average | 2.00 | 8.00 | 82.0 | 0.42 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Demolition | Excavators | Diesel | Average | 1.00 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Loaders | Diesel | Average | 1.00 | 8.00 | 150 | 0.36 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Grading | Bore/Drill Rigs | Diesel | Average | 2.00 | 8.00 | 83.0 | 0.50 |
| Grading | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Grading | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 158 | 0.38 |
| Grading | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Other Construction Equipment | Diesel | Average | 1.00 | 8.00 | 82.0 | 0.42 |
| Grading | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Grading | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| 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 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Building Foundation | Air Compressors | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Building Foundation | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Building Foundation | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Building Foundation | Excavators | Diesel | Average | 2.00 | 8.00 | 158 | 0.38 |
| Building Foundation | Forklifts | Diesel | Average | 2.00 | 8.00 | 82.0 | 0.20 |
| Building Foundation | Pumps | Diesel | Average | 2.00 | 8.00 | 11.0 | 0.74 |
| Building Foundation | Rough Terrain Forklifts | Diesel | Average | 2.00 | 8.00 | 96.0 | 0.40 |
| Building Foundation | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Foundation | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Foundation | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Building Construction | Aerial Lifts | Diesel | Average | 2.00 | 8.00 | 46.0 | 0.31 |
| Building Construction | Cranes | Electric | Average | 1.00 | 8.00 | 367 | 0.29 |
| Building Construction | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 4.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Building Construction | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 2.00 | 8.00 | 46.0 | 0.45 |
| Paving | Cranes | Diesel | Average | 1.00 | 8.00 | 367 | 0.29 |
| Paving | Pumps | Diesel | Average | 4.00 | 8.00 | 11.0 | 0.74 |
| Paving | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Paving | Surfacing Equipment | Diesel | Average | 1.00 | 8.00 | 399 | 0.30 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Other Construction Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 82.0 | 0.42 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Loaders | Diesel | Tier 4 Final | 1.00 | 8.00 | 150 | 0.36 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Grading | Bore/Drill Rigs | Diesel | Tier 4 Final | 2.00 | 8.00 | 83.0 | 0.50 |
| Grading | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Grading | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 158 | 0.38 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 158 | 0.38 |
| Grading | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Other Construction Equipment | Diesel | Tier 4 Final | 1.00 | 8.00 | 82.0 | 0.42 |
| Grading | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Grading | Rough Terrain Forklifts | Diesel | Tier 4 Final | 1.00 | 8.00 | 96.0 | 0.40 |
| Grading | Rubber Tired Loaders | Diesel | Tier 4 Final | 1.00 | 8.00 | 150 | 0.36 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Building Foundation | Air Compressors | Diesel | Tier 4 Final | 1.00 | 8.00 | 37.0 | 0.48 |
| Building Foundation | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Building Foundation | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Foundation | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 158 | 0.38 |
| Building Foundation | Forklifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 82.0 | 0.20 |
| Building Foundation | Pumps | Diesel | Average | 2.00 | 8.00 | 11.0 | 0.74 |
| Building Foundation | Rough Terrain Forklifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 96.0 | 0.40 |
| Building Foundation | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Foundation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Foundation | Trenchers | Diesel | Tier 4 Final | 1.00 | 8.00 | 40.0 | 0.50 |
| Building Construction | Aerial Lifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 46.0 | 0.31 |
| Building Construction | Cranes | Electric | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 4.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Building Construction | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Tier 4 Final | 2.00 | 8.00 | 46.0 | 0.45 |
| Paving | Cranes | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.29 |
| Paving | Pumps | Diesel | Average | 4.00 | 8.00 | 11.0 | 0.74 |
| Paving | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Paving | Surfacing Equipment | Diesel | Tier 4 Final | 1.00 | 8.00 | 399 | 0.30 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 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 | 25.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 40.0 | 30.0 | HHDT |
| Demolition | Onsite truck | 20.0 | 0.05 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 75.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | 10.0 | 10.2 | HHDT,MHDT |
| Grading | Hauling | 250 | 30.0 | HHDT |
| Grading | Onsite truck | 130 | 0.00 | HHDT |
| Building Foundation | — | — | — | — |
| Building Foundation | Worker | 75.0 | 18.5 | LDA,LDT1,LDT2 |
| Building Foundation | Vendor | 40.0 | 10.2 | HHDT,MHDT |
| Building Foundation | Hauling | 0.00 | 20.0 | HHDT |
| Building Foundation | Onsite truck | 20.0 | 0.00 | HHDT |

| | | | | |
|---|---|---|---|---|
| Paving | — | — | — | — |
| Paving | Worker | 20.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | 10.0 | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 5.00 | 0.05 | HHDT |
| 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 | 0.00 | 0.00 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 100 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 40.0 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | 20.0 | 0.05 | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 25.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 40.0 | 30.0 | HHDT |
| Demolition | Onsite truck | 20.0 | 0.05 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 75.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | 10.0 | 10.2 | HHDT,MHDT |
| Grading | Hauling | 250 | 30.0 | HHDT |
| Grading | Onsite truck | 130 | 0.00 | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Foundation | — | — | — | — |
| Building Foundation | Worker | 75.0 | 18.5 | LDA,LDT1,LDT2 |
| Building Foundation | Vendor | 40.0 | 10.2 | HHDT,MHDT |
| Building Foundation | Hauling | 0.00 | 20.0 | HHDT |
| Building Foundation | Onsite truck | 20.0 | 0.00 | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 20.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | 10.0 | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | 5.00 | 0.05 | HHDT |
| 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 | 0.00 | 0.00 | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 100 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 40.0 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | 20.0 | 0.05 | 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% |

## 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 | 811,610 | 270,537 | 33,865 | 9,136 | 12,914 |

## 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 (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 21,910 | — |
| Grading | 0.00 | 79,244 | 32.5 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 |

### 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 Mid Rise | — | 0% |
| High Turnover (Sit Down Restaurant) | 0.00 | 0% |
| Strip Mall | 0.00 | 0% |
| Enclosed Parking with Elevator | 4.94 | 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 |
|---|---|---|---|---|
| 2026 | 0.00 | 440 | 0.05 | 0.01 |
| 2027 | 635 | 418 | 0.05 | 0.01 |
| 2028 | 635 | 397 | 0.05 | 0.01 |
| 2029 | 0.00 | 375 | 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 |
|---|---|---|---|

#### 5.18.1.2. 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 | 5.27 | annual days of extreme heat |
| Extreme Precipitation | 5.20 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | 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 | 35.2 |
| AQ-PM | 73.2 |
| AQ-DPM | 92.2 |
| Drinking Water | 52.7 |
| Lead Risk Housing | 68.5 |
| Pesticides | 0.00 |
| Toxic Releases | 84.4 |
| Traffic | 72.6 |
| Effect Indicators | — |
| CleanUp Sites | 64.4 |
| Groundwater | 75.5 |
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 9.67 |
| Sensitive Population | — |
| Asthma | 18.8 |
| Cardio-vascular | 44.1 |
| Low Birth Weights | 23.1 |
| Socioeconomic Factor Indicators | — |
| Education | 2.30 |
| Housing | 70.2 |
| Linguistic | 22.9 |
| Poverty | 31.3 |
| Unemployment | 0.33 |

## 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 | 48.32542025 |
| Employed | 65.58449891 |
| Median HI | 65.19953805 |
| Education | — |
| Bachelor's or higher | 76.02977031 |
| High school enrollment | 100 |
| Preschool enrollment | 6.762479148 |
| Transportation | — |
| Auto Access | 58.83485179 |
| Active commuting | 62.4534839 |
| Social | — |
| 2-parent households | 70.51199795 |
| Voting | 56.08879764 |
| Neighborhood | — |
| Alcohol availability | 24.11138201 |
| Park access | 81.35506224 |
| Retail density | 62.7229565 |
| Supermarket access | 58.60387527 |
| Tree canopy | 46.38778391 |
| Housing | — |
| Homeownership | 59.33530091 |
| Housing habitability | 44.78378032 |
| Low-inc homeowner severe housing cost burden | 7.442576671 |
| Low-inc renter severe housing cost burden | 34.42833312 |

| | |
|---|---|
| Uncrowded housing | 78.31387142 |
| Health Outcomes | — |
| Insured adults | 67.86860003 |
| Arthritis | 55.6 |
| Asthma ER Admissions | 59.4 |
| High Blood Pressure | 59.9 |
| Cancer (excluding skin) | 32.7 |
| Asthma | 65.7 |
| Coronary Heart Disease | 57.7 |
| Chronic Obstructive Pulmonary Disease | 59.8 |
| Diagnosed Diabetes | 64.3 |
| Life Expectancy at Birth | 42.2 |
| Cognitively Disabled | 29.3 |
| Physically  Disabled | 54.0 |
| Heart Attack ER Admissions | 41.3 |
| Mental Health Not Good | 61.1 |
| Chronic Kidney Disease | 73.0 |
| Obesity | 56.8 |
| Pedestrian Injuries | 71.3 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 35.4 |
| Current Smoker | 61.3 |
| No Leisure Time for Physical Activity | 69.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |

| | |
|---|---|
| Children | 61.0 |
| Elderly | 50.9 |
| English Speaking | 67.4 |
| Foreign-born | 16.2 |
| Outdoor Workers | 88.7 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 31.3 |
| Traffic Density | 52.3 |
| Traffic Access | 87.4 |
| Other Indices | — |
| Hardship | 26.2 |
| Other Decision Support | — |
| 2016 Voting | 52.1 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 36.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Characteristics: Utility Information | SB 100 for 2027 |
| Land Use | 2.4-acre site |
| Construction: Construction Phases | see construction assumptions |
| Construction: Off-Road Equipment | see construction assumptions |
| Construction: Trips and VMT | see construction assumptions |
| Construction: On-Road Fugitive Dust | Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which<br>the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily. |
| Construction: Electricity | SB 100 |
| Operations: Hearths | No Hearths |
| Operations: Energy Use | All electric building except restaurant cooking |
| Operations: Generators + Pumps EF | SCAQMD Rule 1470 |
| Operations: Landscape Equipment | — |

# 6136 Manchester - Construction Onsite 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 | 6136 Manchester - Construction Onsite |
| Construction Start Date | 8/3/2026 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 17.6 |
| Location | 6136 Manchester Ave, Los Angeles, CA 90045, USA |
| County | Los Angeles-South Coast |
| City | Los Angeles |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4577 |
| 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 Mid Rise | 489 | Dwelling Unit | 2.40 | 400,795 | 12,451 | 0.00 | 1,159 | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 10.7 | 1000sqft | 0.00 | 10,747 | 0.00 | 0.00 | — | — |
| Strip Mall | 5.37 | 1000sqft | 0.00 | 5,373 | 0.00 | 0.00 | — | — |
| Enclosed Parking with Elevator | 549 | Space | 4.94 | 219,600 | 0.00 | 0.00 | — | — |
| Recreational Swimming Pool | 0.86 | 1000sqft | 0.00 | 865 | 0.00 | 0.00 | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-5 | Use Advanced Engine Tiers |
| Water | W-7 | Adopt a Water Conservation Strategy |
| Waste | S-1/S-2 | Implement Waste Reduction Plan |

## 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. | 2.70 | 25.2 | 36.3 | 0.07 | 0.97 | 0.92 | 1.34 | 0.89 | 0.13 | 0.91 | 6,889 |
| Mit. | 1.08 | 8.55 | 42.6 | 0.07 | 0.25 | 0.92 | 0.99 | 0.24 | 0.13 | 0.26 | 6,889 |
| % Reduced | 60% | 66% | -17% | — | 74% | — | 26% | 73% | — | 72% | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 33.8 | 25.3 | 36.3 | 0.07 | 0.97 | 0.20 | 1.13 | 0.89 | 0.02 | 0.91 | 6,893 |
| Mit. | 33.4 | 8.64 | 42.6 | 0.07 | 0.25 | 0.20 | 0.41 | 0.24 | 0.02 | 0.26 | 6,893 |
| % Reduced | 1% | 66% | -17% | — | 74% | — | 63% | 73% | — | 72% | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 6.71 | 13.0 | 17.6 | 0.03 | 0.46 | 0.10 | 0.51 | 0.42 | 0.01 | 0.42 | 3,509 |
| Mit. | 6.11 | 4.94 | 21.3 | 0.03 | 0.12 | 0.10 | 0.18 | 0.12 | 0.01 | 0.12 | 3,509 |
| % Reduced | 9% | 62% | -21% | — | 73% | — | 65% | 72% | — | 71% | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.22 | 2.36 | 3.22 | 0.01 | 0.08 | 0.02 | 0.09 | 0.08 | < 0.005 | 0.08 | 581 |
| Mit. | 1.12 | 0.90 | 3.88 | 0.01 | 0.02 | 0.02 | 0.03 | 0.02 | < 0.005 | 0.02 | 581 |
| % Reduced | 9% | 62% | -21% | — | 73% | — | 65% | 72% | — | 71% | — |

## 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) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 2.70 | 25.2 | 36.3 | 0.07 | 0.97 | 0.92 | 1.34 | 0.89 | 0.13 | 0.91 | 6,889 |
| 2027 | 2.21 | 19.3 | 28.1 | 0.05 | 0.70 | 0.20 | 0.76 | 0.64 | 0.02 | 0.64 | 5,515 |
| 2028 | 1.71 | 15.8 | 20.1 | 0.04 | 0.50 | 0.20 | 0.70 | 0.46 | 0.02 | 0.48 | 4,115 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 2.69 | 25.3 | 36.3 | 0.07 | 0.97 | 0.16 | 1.13 | 0.89 | 0.02 | 0.91 | 6,893 |
| 2027 | 2.20 | 19.3 | 28.1 | 0.05 | 0.70 | 0.20 | 0.76 | 0.64 | 0.02 | 0.64 | 5,515 |
| 2028 | 32.2 | 15.8 | 20.1 | 0.04 | 0.50 | 0.20 | 0.70 | 0.46 | 0.02 | 0.48 | 4,115 |
| 2029 | 33.8 | 8.33 | 9.53 | 0.03 | 0.31 | 0.05 | 0.37 | 0.29 | 0.01 | 0.29 | 2,838 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.68 | 6.26 | 9.04 | 0.02 | 0.24 | 0.08 | 0.32 | 0.22 | 0.01 | 0.23 | 1,694 |
| 2027 | 1.44 | 13.0 | 17.6 | 0.03 | 0.46 | 0.06 | 0.51 | 0.42 | 0.01 | 0.42 | 3,509 |
| 2028 | 6.71 | 8.44 | 10.7 | 0.02 | 0.27 | 0.10 | 0.37 | 0.25 | 0.01 | 0.26 | 2,199 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2029 | 1.92 | 0.48 | 0.55 | < 0.005 | 0.02 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.02 | 163 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.12 | 1.14 | 1.65 | < 0.005 | 0.04 | 0.01 | 0.06 | 0.04 | < 0.005 | 0.04 | 280 |
| 2027 | 0.26 | 2.36 | 3.22 | 0.01 | 0.08 | 0.01 | 0.09 | 0.08 | < 0.005 | 0.08 | 581 |
| 2028 | 1.22 | 1.54 | 1.96 | < 0.005 | 0.05 | 0.02 | 0.07 | 0.04 | < 0.005 | 0.05 | 364 |
| 2029 | 0.35 | 0.09 | 0.10 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 27.0 |

## 2.3. Construction Emissions by Year, Mitigated

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

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 1.08 | 8.55 | 42.6 | 0.07 | 0.25 | 0.92 | 0.99 | 0.24 | 0.13 | 0.26 | 6,889 |
| 2027 | 0.88 | 7.20 | 33.9 | 0.05 | 0.21 | 0.20 | 0.33 | 0.20 | 0.02 | 0.20 | 5,515 |
| 2028 | 0.60 | 6.56 | 24.4 | 0.04 | 0.13 | 0.20 | 0.33 | 0.12 | 0.02 | 0.14 | 4,115 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 1.08 | 8.64 | 42.6 | 0.07 | 0.25 | 0.16 | 0.41 | 0.24 | 0.02 | 0.26 | 6,893 |
| 2027 | 0.88 | 7.21 | 33.9 | 0.05 | 0.21 | 0.20 | 0.33 | 0.20 | 0.02 | 0.20 | 5,515 |
| 2028 | 32.2 | 6.57 | 24.4 | 0.04 | 0.13 | 0.20 | 0.33 | 0.12 | 0.02 | 0.14 | 4,115 |
| 2029 | 33.4 | 4.41 | 14.8 | 0.03 | 0.17 | 0.05 | 0.22 | 0.16 | 0.01 | 0.17 | 2,838 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.27 | 2.23 | 11.0 | 0.02 | 0.06 | 0.08 | 0.14 | 0.06 | 0.01 | 0.07 | 1,756 |
| 2027 | 0.54 | 4.94 | 21.3 | 0.03 | 0.12 | 0.06 | 0.18 | 0.12 | 0.01 | 0.12 | 3,509 |
| 2028 | 6.11 | 3.51 | 13.0 | 0.02 | 0.07 | 0.10 | 0.17 | 0.06 | 0.01 | 0.07 | 2,199 |
| 2029 | 1.90 | 0.25 | 0.85 | < 0.005 | 0.01 | < 0.005 | 0.01 | 0.01 | < 0.005 | 0.01 | 163 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.05 | 0.41 | 2.01 | < 0.005 | 0.01 | 0.01 | 0.03 | 0.01 | < 0.005 | 0.01 | 291 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2027 | 0.10 | 0.90 | 3.88 | 0.01 | 0.02 | 0.01 | 0.03 | 0.02 | < 0.005 | 0.02 | 581 |
| 2028 | 1.12 | 0.64 | 2.38 | < 0.005 | 0.01 | 0.02 | 0.03 | 0.01 | < 0.005 | 0.01 | 364 |
| 2029 | 0.35 | 0.05 | 0.16 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 27.0 |

# 3. Construction Emissions Details

## 3.1. Demolition (2026) - 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 | 1.16 | 9.69 | 15.5 | 0.02 | 0.42 | — | 0.42 | 0.39 | — | 0.39 | 2,378 |
| Demolition | — | — | — | — | — | 0.72 | 0.72 | — | 0.11 | 0.11 | — |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.53 | 0.85 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 130 |
| Demolition | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 2.15 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.10 | 0.16 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 21.6 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 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 | 0.36 |
| 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 |

## 3.2. Demolition (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.37 | 4.55 | 24.5 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | 3,500 |
| Demolition | — | — | — | — | — | 0.72 | 0.72 | — | 0.11 | 0.11 | — |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.02 | 0.25 | 1.34 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 192 |
| Demolition | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 2.15 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.24 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 31.8 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 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 | 0.36 |
| 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 |

## 3.3. Grading (2026) - 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 | 2.61 | 23.4 | 34.9 | 0.06 | 0.97 | — | 0.97 | 0.89 | — | 0.89 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.08 | 1.81 | 1.38 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 231 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.61 | 23.4 | 34.9 | 0.06 | 0.97 | — | 0.97 | 0.89 | — | 0.89 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.07 | 1.89 | 1.42 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 235 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.47 | 4.16 | 6.22 | 0.01 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | 1,186 |
| Dust From Material Movement | — | — | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.01 | 0.33 | 0.25 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.4 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.76 | 1.14 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 196 |
| Dust From Material Movement | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — |
| Onsite truck | < 0.005 | 0.06 | 0.05 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 |
| 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 |

## 3.4. Grading (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 6.75 | 41.2 | 0.06 | 0.25 | — | 0.25 | 0.24 | — | 0.24 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.08 | 1.81 | 1.38 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 231 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 6.75 | 41.2 | 0.06 | 0.25 | — | 0.25 | 0.24 | — | 0.24 | 6,658 |
| Dust From Material Movement | — | — | — | — | — | 0.16 | 0.16 | — | 0.02 | 0.02 | — |
| Onsite truck | 0.07 | 1.89 | 1.42 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 235 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | 1.20 | 7.34 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 1,186 |
| Dust From Material Movement | — | — | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.01 | 0.33 | 0.25 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.4 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.22 | 1.34 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 196 |
| Dust From Material Movement | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — |
| Onsite truck | < 0.005 | 0.06 | 0.05 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 |
| 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. Building Foundation (2026) - 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 | 2.26 | 19.9 | 27.9 | 0.05 | 0.76 | — | 0.76 | 0.70 | — | 0.70 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.1 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 1.20 | 1.70 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | 332 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.22 | 0.31 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 55.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 |
| 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 |

## 3.6. Building Foundation (2026) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.1 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.42 | 2.04 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 332 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.08 | 0.37 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 55.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 |
| 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 |

## 3.7. Building Foundation (2027) - 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 | 2.19 | 19.0 | 27.9 | 0.05 | 0.70 | — | 0.70 | 0.64 | — | 0.64 | 5,479 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 34.9 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.19 | 19.0 | 27.9 | 0.05 | 0.70 | — | 0.70 | 0.64 | — | 0.64 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.6 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.91 | 7.86 | 11.5 | 0.02 | 0.29 | — | 0.29 | 0.27 | — | 0.27 | 2,262 |
| Onsite truck | < 0.005 | 0.12 | 0.09 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 1.43 | 2.10 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 375 |
| Onsite truck | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 |
| 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 |

## 3.8. Building Foundation (2027) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 34.9 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.87 | 6.93 | 33.6 | 0.05 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | 5,479 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.6 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.36 | 2.86 | 13.9 | 0.02 | 0.08 | — | 0.08 | 0.08 | — | 0.08 | 2,262 |
| Onsite truck | < 0.005 | 0.12 | 0.09 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.52 | 2.53 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | 375 |
| Onsite truck | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 |
| 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 |

## 3.9. Building Construction (2027) - 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 | 1.76 | 16.3 | 19.9 | 0.04 | 0.56 | — | 0.56 | 0.51 | — | 0.51 | 4,075 |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.76 | 16.3 | 19.9 | 0.04 | 0.56 | — | 0.56 | 0.51 | — | 0.51 | 4,075 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.53 | 4.89 | 5.96 | 0.01 | 0.17 | — | 0.17 | 0.15 | — | 0.15 | 1,220 |
| Onsite truck | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | 11.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.10 | 0.89 | 1.09 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | 202 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 1.91 |
| 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 |

## 3.10. Building Construction (2027) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | 4,075 |
| Onsite truck | 0.01 | 0.28 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.13 | — | 0.13 | 0.12 | — | 0.12 | 4,075 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 39.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | 1.88 | 7.24 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 1,220 |
| Onsite truck | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | 11.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.34 | 1.32 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 202 |
| Onsite truck | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 1.91 |
| 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 (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 | 1.69 | 15.5 | 19.9 | 0.04 | 0.50 | — | 0.50 | 0.46 | — | 0.46 | 4,076 |
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 37.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.69 | 15.5 | 19.9 | 0.04 | 0.50 | — | 0.50 | 0.46 | — | 0.46 | 4,076 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.4 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.90 | 8.29 | 10.6 | 0.02 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | 2,178 |
| Onsite truck | 0.01 | 0.15 | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.01 | 0.01 | 20.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 1.51 | 1.94 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | 361 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 3.36 |
| 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 |

## 3.12. Building Construction (2028) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | 4,076 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.01 | 0.27 | 0.21 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 37.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.59 | 6.29 | 24.2 | 0.04 | 0.12 | — | 0.12 | 0.12 | — | 0.12 | 4,076 |
| Onsite truck | 0.01 | 0.29 | 0.22 | < 0.005 | < 0.005 | 0.20 | 0.20 | < 0.005 | 0.02 | 0.02 | 38.4 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.31 | 3.36 | 12.9 | 0.02 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | 2,178 |
| Onsite truck | 0.01 | 0.15 | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.01 | 0.01 | 20.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.61 | 2.36 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 361 |
| Onsite truck | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 3.36 |
| 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. 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 | 1.04 | 8.26 | 9.47 | 0.03 | 0.31 | — | 0.31 | 0.29 | — | 0.29 | 2,828 |
| Paving | 0.62 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01 | 0.01 | 9.47 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.48 | 0.55 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 163 |
| Paving | 0.04 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.09 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 26.9 |
| 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 | 0.09 |
| 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 |

## 3.14. Paving (2029) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.64 | 4.34 | 14.7 | 0.03 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | 2,828 |
| Paving | 0.62 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01 | 0.01 | 9.47 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.25 | 0.85 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 163 |
| Paving | 0.04 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.01 | 0.05 | 0.15 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 26.9 |
| 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 | 0.09 |
| 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 |

## 3.15. Architectural Coating (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) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 5.79 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.06 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 |

## 3.16. Architectural Coating (2028) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 5.79 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.06 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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. Architectural Coating (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) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.83 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.33 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 |

## 3.18. Architectural Coating (2029) - Mitigated

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

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 32.2 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 1.83 | — | — | — | — | — | — | — | — | — | — |
| 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 | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.33 | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.00 | 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 | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — |

### 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

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 8/3/2026 | 8/30/2026 | 5.00 | 20.0 | — |
| Grading | Grading | 9/1/2026 | 11/30/2026 | 5.00 | 65.0 | — |
| Building Foundation | Building Construction | 12/1/2026 | 7/30/2027 | 5.00 | 174 | — |
| Building Construction | Building Construction | 8/1/2027 | 9/29/2028 | 5.00 | 305 | — |
| Paving | Paving | 1/1/2029 | 1/29/2029 | 5.00 | 21.0 | — |
| Architectural Coating | Architectural Coating | 10/1/2028 | 1/29/2029 | 5.00 | 86.0 | — |

## 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 | Other Construction Equipment | Diesel | Average | 2.00 | 8.00 | 82.0 | 0.42 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Demolition | Excavators | Diesel | Average | 1.00 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Loaders | Diesel | Average | 1.00 | 8.00 | 150 | 0.36 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Grading | Bore/Drill Rigs | Diesel | Average | 2.00 | 8.00 | 83.0 | 0.50 |
| Grading | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Grading | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 158 | 0.38 |
| Grading | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Other Construction Equipment | Diesel | Average | 1.00 | 8.00 | 82.0 | 0.42 |
| Grading | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Grading | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| 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 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Building Foundation | Air Compressors | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Building Foundation | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Building Foundation | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Building Foundation | Excavators | Diesel | Average | 2.00 | 8.00 | 158 | 0.38 |
| Building Foundation | Forklifts | Diesel | Average | 2.00 | 8.00 | 82.0 | 0.20 |
| Building Foundation | Pumps | Diesel | Average | 2.00 | 8.00 | 11.0 | 0.74 |
| Building Foundation | Rough Terrain Forklifts | Diesel | Average | 2.00 | 8.00 | 96.0 | 0.40 |
| Building Foundation | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Foundation | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Foundation | Trenchers | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Building Construction | Aerial Lifts | Diesel | Average | 2.00 | 8.00 | 46.0 | 0.31 |
| Building Construction | Cranes | Electric | Average | 1.00 | 8.00 | 367 | 0.29 |
| Building Construction | Cranes | Diesel | Average | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 4.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Building Construction | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 2.00 | 8.00 | 46.0 | 0.45 |
| Paving | Cranes | Diesel | Average | 1.00 | 8.00 | 367 | 0.29 |
| Paving | Pumps | Diesel | Average | 4.00 | 8.00 | 11.0 | 0.74 |
| Paving | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Paving | Surfacing Equipment | Diesel | Average | 1.00 | 8.00 | 399 | 0.30 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Other Construction Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 82.0 | 0.42 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Loaders | Diesel | Tier 4 Final | 1.00 | 8.00 | 150 | 0.36 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Grading | Bore/Drill Rigs | Diesel | Tier 4 Final | 2.00 | 8.00 | 83.0 | 0.50 |
| Grading | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Grading | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 158 | 0.38 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 158 | 0.38 |
| Grading | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Other Construction Equipment | Diesel | Tier 4 Final | 1.00 | 8.00 | 82.0 | 0.42 |
| Grading | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Grading | Rough Terrain Forklifts | Diesel | Tier 4 Final | 1.00 | 8.00 | 96.0 | 0.40 |
| Grading | Rubber Tired Loaders | Diesel | Tier 4 Final | 1.00 | 8.00 | 150 | 0.36 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Building Foundation | Air Compressors | Diesel | Tier 4 Final | 1.00 | 8.00 | 37.0 | 0.48 |
| Building Foundation | Cement and Mortar Mixers | Diesel | Average | 2.00 | 8.00 | 10.0 | 0.56 |
| Building Foundation | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Foundation | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 158 | 0.38 |
| Building Foundation | Forklifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 82.0 | 0.20 |
| Building Foundation | Pumps | Diesel | Average | 2.00 | 8.00 | 11.0 | 0.74 |
| Building Foundation | Rough Terrain Forklifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 96.0 | 0.40 |
| Building Foundation | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Building Foundation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Foundation | Trenchers | Diesel | Tier 4 Final | 1.00 | 8.00 | 40.0 | 0.50 |
| Building Construction | Aerial Lifts | Diesel | Tier 4 Final | 2.00 | 8.00 | 46.0 | 0.31 |
| Building Construction | Cranes | Electric | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 4.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Building Construction | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Tier 4 Final | 2.00 | 8.00 | 46.0 | 0.45 |
| Paving | Cranes | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.29 |
| Paving | Pumps | Diesel | Average | 4.00 | 8.00 | 11.0 | 0.74 |
| Paving | Signal Boards | Diesel | Average | 2.00 | 8.00 | 6.00 | 0.82 |
| Paving | Surfacing Equipment | Diesel | Tier 4 Final | 1.00 | 8.00 | 399 | 0.30 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 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 | 30.0 | HHDT |
| Demolition | Onsite truck | 20.0 | 0.05 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 0.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 30.0 | HHDT |
| Grading | Onsite truck | 130 | 0.00 | HHDT |
| Building Foundation | — | — | — | — |
| Building Foundation | Worker | 0.00 | 18.5 | LDA,LDT1,LDT2 |
| Building Foundation | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Building Foundation | Hauling | 0.00 | 20.0 | HHDT |
| Building Foundation | Onsite truck | 20.0 | 0.00 | 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 | 5.00 | 0.05 | HHDT |
| 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 | 0.00 | 0.00 | HHDT |
| 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 | 20.0 | 0.05 | HHDT |

### 5.3.2. Mitigated

| 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 | 30.0 | HHDT |
| Demolition | Onsite truck | 20.0 | 0.05 | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 0.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 30.0 | HHDT |
| Grading | Onsite truck | 130 | 0.00 | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Foundation | — | — | — | — |
| Building Foundation | Worker | 0.00 | 18.5 | LDA,LDT1,LDT2 |
| Building Foundation | Vendor | 0.00 | 10.2 | HHDT,MHDT |
| Building Foundation | Hauling | 0.00 | 20.0 | HHDT |
| Building Foundation | Onsite truck | 20.0 | 0.00 | 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 | 5.00 | 0.05 | HHDT |
| 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 | 0.00 | 0.00 | HHDT |
| 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 | 20.0 | 0.05 | 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% |

## 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 | 811,610 | 270,537 | 33,865 | 9,136 | 12,914 |

## 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 (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 21,910 | — |
| Grading | 0.00 | 79,244 | 32.5 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 |

### 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 Mid Rise | — | 0% |
| High Turnover (Sit Down Restaurant) | 0.00 | 0% |
| Strip Mall | 0.00 | 0% |
| Enclosed Parking with Elevator | 4.94 | 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 |
|---|---|---|---|---|
| 2026 | 0.00 | 440 | 0.05 | 0.01 |
| 2027 | 635 | 418 | 0.05 | 0.01 |
| 2028 | 635 | 397 | 0.05 | 0.01 |
| 2029 | 0.00 | 375 | 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 |
|---|---|---|---|

#### 5.18.1.2. 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 | 5.27 | annual days of extreme heat |
| Extreme Precipitation | 5.20 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | 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 | 35.2 |
| AQ-PM | 73.2 |
| AQ-DPM | 92.2 |
| Drinking Water | 52.7 |
| Lead Risk Housing | 68.5 |
| Pesticides | 0.00 |
| Toxic Releases | 84.4 |
| Traffic | 72.6 |
| Effect Indicators | — |
| CleanUp Sites | 64.4 |
| Groundwater | 75.5 |
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 9.67 |
| Sensitive Population | — |
| Asthma | 18.8 |
| Cardio-vascular | 44.1 |
| Low Birth Weights | 23.1 |
| Socioeconomic Factor Indicators | — |
| Education | 2.30 |
| Housing | 70.2 |
| Linguistic | 22.9 |
| Poverty | 31.3 |
| Unemployment | 0.33 |

## 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 | 48.32542025 |
| Employed | 65.58449891 |
| Median HI | 65.19953805 |
| Education | — |
| Bachelor's or higher | 76.02977031 |
| High school enrollment | 100 |
| Preschool enrollment | 6.762479148 |
| Transportation | — |
| Auto Access | 58.83485179 |
| Active commuting | 62.4534839 |
| Social | — |
| 2-parent households | 70.51199795 |
| Voting | 56.08879764 |
| Neighborhood | — |
| Alcohol availability | 24.11138201 |
| Park access | 81.35506224 |
| Retail density | 62.7229565 |
| Supermarket access | 58.60387527 |
| Tree canopy | 46.38778391 |
| Housing | — |
| Homeownership | 59.33530091 |
| Housing habitability | 44.78378032 |
| Low-inc homeowner severe housing cost burden | 7.442576671 |
| Low-inc renter severe housing cost burden | 34.42833312 |

| | |
|---|---|
| Uncrowded housing | 78.31387142 |
| Health Outcomes | — |
| Insured adults | 67.86860003 |
| Arthritis | 55.6 |
| Asthma ER Admissions | 59.4 |
| High Blood Pressure | 59.9 |
| Cancer (excluding skin) | 32.7 |
| Asthma | 65.7 |
| Coronary Heart Disease | 57.7 |
| Chronic Obstructive Pulmonary Disease | 59.8 |
| Diagnosed Diabetes | 64.3 |
| Life Expectancy at Birth | 42.2 |
| Cognitively Disabled | 29.3 |
| Physically  Disabled | 54.0 |
| Heart Attack ER Admissions | 41.3 |
| Mental Health Not Good | 61.1 |
| Chronic Kidney Disease | 73.0 |
| Obesity | 56.8 |
| Pedestrian Injuries | 71.3 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 35.4 |
| Current Smoker | 61.3 |
| No Leisure Time for Physical Activity | 69.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |

| | |
|---|---|
| Children | 61.0 |
| Elderly | 50.9 |
| English Speaking | 67.4 |
| Foreign-born | 16.2 |
| Outdoor Workers | 88.7 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 31.3 |
| Traffic Density | 52.3 |
| Traffic Access | 87.4 |
| Other Indices | — |
| Hardship | 26.2 |
| Other Decision Support | — |
| 2016 Voting | 52.1 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 36.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Characteristics: Utility Information | SB 100 for 2027 |
| Land Use | 2.4-acre site |
| Construction: Construction Phases | see construction assumptions |
| Construction: Off-Road Equipment | see construction assumptions |
| Construction: Trips and VMT | see construction assumptions |
| Construction: On-Road Fugitive Dust | Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which<br>the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily. |
| Construction: Electricity | SB 100 |
| Operations: Hearths | No Hearths |
| Operations: Energy Use | All electric building except restaurant cooking |
| Operations: Generators + Pumps EF | SCAQMD Rule 1470 |
| Operations: Landscape Equipment | — |

# 6136 Manchester - Operations Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | 6136 Manchester - Operations |
| Operational Year | 2029 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 3.50 |
| Precipitation (days) | 17.6 |
| Location | 6136 Manchester Ave, Los Angeles, CA 90045, USA |
| County | Los Angeles-South Coast |
| City | Los Angeles |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4577 |
| EDFZ | 16 |
| Electric Utility | Los Angeles Department of Water & Power |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.26 |

## 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 Mid Rise | 489 | Dwelling Unit | 2.40 | 400,795 | 12,451 | 0.00 | 1,159 | — |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 10.7 | 1000sqft | 0.00 | 10,747 | 0.00 | 0.00 | — | — |
| Strip Mall | 5.37 | 1000sqft | 0.00 | 5,373 | 0.00 | 0.00 | — | — |
| Enclosed Parking with Elevator | 549 | Space | 4.94 | 219,600 | 0.00 | 0.00 | — | — |
| Recreational Swimming Pool | 0.86 | 1000sqft | 0.00 | 865 | 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. | 24.0 | 7.08 | 113 | 0.19 | 0.16 | 17.3 | 17.4 | 0.15 | 4.39 | 4.53 | 24,850 |
| Mit. | 24.0 | 7.08 | 113 | 0.19 | 0.16 | 17.3 | 17.4 | 0.15 | 4.39 | 4.53 | 24,166 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 19.9 | 7.29 | 70.0 | 0.18 | 0.13 | 17.3 | 17.4 | 0.12 | 4.39 | 4.51 | 23,951 |
| Mit. | 19.9 | 7.29 | 70.0 | 0.18 | 0.13 | 17.3 | 17.4 | 0.12 | 4.39 | 4.51 | 23,268 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Unmit. | 22.1 | 7.36 | 96.5 | 0.18 | 0.15 | 17.1 | 17.2 | 0.13 | 4.34 | 4.47 | 24,023 |
| Mit. | 22.1 | 7.36 | 96.5 | 0.18 | 0.15 | 17.1 | 17.2 | 0.13 | 4.34 | 4.47 | 23,340 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | 3% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.04 | 1.34 | 17.6 | 0.03 | 0.03 | 3.12 | 3.14 | 0.02 | 0.79 | 0.82 | 3,977 |
| Mit. | 4.04 | 1.34 | 17.6 | 0.03 | 0.03 | 3.12 | 3.14 | 0.02 | 0.79 | 0.82 | 3,864 |
| % 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 | 9.26 | 6.05 | 72.4 | 0.18 | 0.10 | 17.3 | 17.4 | 0.10 | 4.39 | 4.48 | 18,546 |
| Area | 13.8 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 336 |
| Waste | — | — | — | — | — | — | — | — | — | — | 807 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Stationary | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 24.0 | 7.08 | 113 | 0.19 | 0.16 | 17.3 | 17.4 | 0.15 | 4.39 | 4.53 | 24,850 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 9.17 | 6.61 | 67.3 | 0.17 | 0.10 | 17.3 | 17.4 | 0.10 | 4.39 | 4.48 | 17,764 |
| Area | 9.70 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 336 |
| Waste | — | — | — | — | — | — | — | — | — | — | 807 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Stationary | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 19.9 | 7.29 | 70.0 | 0.18 | 0.13 | 17.3 | 17.4 | 0.12 | 4.39 | 4.51 | 23,951 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 9.09 | 6.66 | 68.9 | 0.17 | 0.10 | 17.1 | 17.2 | 0.10 | 4.34 | 4.44 | 17,985 |
| Area | 12.5 | 0.24 | 26.1 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 80.0 |
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 336 |
| Waste | — | — | — | — | — | — | — | — | — | — | 807 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Stationary | 0.54 | 0.26 | 1.38 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 277 |
| Total | 22.1 | 7.36 | 96.5 | 0.18 | 0.15 | 17.1 | 17.2 | 0.13 | 4.34 | 4.47 | 24,023 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.66 | 1.21 | 12.6 | 0.03 | 0.02 | 3.12 | 3.14 | 0.02 | 0.79 | 0.81 | 2,978 |
| Area | 2.28 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |
| Energy | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 748 |
| Water | — | — | — | — | — | — | — | — | — | — | 55.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | 134 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.26 |
| Stationary | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |
| Total | 4.04 | 1.34 | 17.6 | 0.03 | 0.03 | 3.12 | 3.14 | 0.02 | 0.79 | 0.82 | 3,977 |

## 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 | 9.26 | 6.05 | 72.4 | 0.18 | 0.10 | 17.3 | 17.4 | 0.10 | 4.39 | 4.48 | 18,546 |
| Area | 13.8 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 269 |
| Waste | — | — | — | — | — | — | — | — | — | — | 190 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Stationary | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 24.0 | 7.08 | 113 | 0.19 | 0.16 | 17.3 | 17.4 | 0.15 | 4.39 | 4.53 | 24,166 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 9.17 | 6.61 | 67.3 | 0.17 | 0.10 | 17.3 | 17.4 | 0.10 | 4.39 | 4.48 | 17,764 |
| Area | 9.70 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 269 |
| Waste | — | — | — | — | — | — | — | — | — | — | 190 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Stationary | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 19.9 | 7.29 | 70.0 | 0.18 | 0.13 | 17.3 | 17.4 | 0.12 | 4.39 | 4.51 | 23,268 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 9.09 | 6.66 | 68.9 | 0.17 | 0.10 | 17.1 | 17.2 | 0.10 | 4.34 | 4.44 | 17,985 |
| Area | 12.5 | 0.24 | 26.1 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 80.0 |
| Energy | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 4,519 |
| Water | — | — | — | — | — | — | — | — | — | — | 269 |
| Waste | — | — | — | — | — | — | — | — | — | — | 190 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Stationary | 0.54 | 0.26 | 1.38 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 277 |
| Total | 22.1 | 7.36 | 96.5 | 0.18 | 0.15 | 17.1 | 17.2 | 0.13 | 4.34 | 4.47 | 23,340 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.66 | 1.21 | 12.6 | 0.03 | 0.02 | 3.12 | 3.14 | 0.02 | 0.79 | 0.81 | 2,978 |
| Area | 2.28 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |
| Energy | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 748 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water | — | — | — | — | — | — | — | — | — | — | 44.5 |
| Waste | — | — | — | — | — | — | — | — | — | — | 31.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 3.26 |
| Stationary | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |
| Total | 4.04 | 1.34 | 17.6 | 0.03 | 0.03 | 3.12 | 3.14 | 0.02 | 0.79 | 0.82 | 3,864 |

# 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 1,999 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 572 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 79.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 840 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 785 |
| Total | — | — | — | — | — | — | — | — | — | — | 4,276 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 1,999 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 572 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 79.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 840 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 785 |
| Total | — | — | — | — | — | — | — | — | — | — | 4,276 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 331 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 94.7 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 13.2 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 139 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 130 |
| Total | — | — | — | — | — | — | — | — | — | — | 708 |

## 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 1,999 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 572 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 79.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 840 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 785 |
| Total | — | — | — | — | — | — | — | — | — | — | 4,276 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 1,999 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 572 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 79.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 840 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 785 |
| Total | — | — | — | — | — | — | — | — | — | — | 4,276 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 331 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 94.7 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 13.2 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 139 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 130 |
| Total | — | — | — | — | — | — | — | — | — | — | 708 |

### 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 Mid Rise | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| High Turnover (Sit Down Restaurant) | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| High Turnover (Sit Down Restaurant) | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid 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 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 40.2 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 40.2 |

### 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 Mid Rise | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| High Turnover (Sit Down Restaurant) | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| High Turnover (Sit Down Restaurant) | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 243 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid 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 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 40.2 |
| Strip Mall | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 40.2 |

## 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 | 8.94 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.76 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 4.09 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |
| Total | 13.8 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 8.94 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.76 | — | — | — | — | — | — | — | — | — | — |
| Total | 9.70 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 1.63 | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coatings | 0.14 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.51 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |
| Total | 2.28 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |

### 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 | 8.94 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.76 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 4.09 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |
| Total | 13.8 | 0.35 | 38.1 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | 117 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 8.94 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.76 | — | — | — | — | — | — | — | — | — | — |
| Total | 9.70 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 1.63 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.14 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.51 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |
| Total | 2.28 | 0.04 | 4.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.2 |

## 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 280 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 49.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 6.08 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.78 |
| Total | — | — | — | — | — | — | — | — | — | — | 336 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 280 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 49.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 6.08 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.78 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | 336 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 46.3 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 8.25 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 1.01 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.13 |
| Total | — | — | — | — | — | — | — | — | — | — | 55.7 |

### 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 224 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 39.9 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 4.86 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.63 |
| Total | — | — | — | — | — | — | — | — | — | — | 269 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 224 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 39.9 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 4.86 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.63 |
| Total | — | — | — | — | — | — | — | — | — | — | 269 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 37.0 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 6.60 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.81 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.10 |
| Total | — | — | — | — | — | — | — | — | — | — | 44.5 |

## 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 546 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 241 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 10.6 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 9.30 |
| Total | — | — | — | — | — | — | — | — | — | — | 807 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 546 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 241 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 10.6 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 9.30 |
| Total | — | — | — | — | — | — | — | — | — | — | 807 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 90.4 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 39.9 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 1.76 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 1.54 |
| Total | — | — | — | — | — | — | — | — | — | — | 134 |

### 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 129 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 56.9 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 2.51 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 2.19 |
| Total | — | — | — | — | — | — | — | — | — | — | 190 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 129 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 56.9 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 2.51 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 2.19 |
| Total | — | — | — | — | — | — | — | — | — | — | 190 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 21.3 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 9.42 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.42 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | 0.36 |
| Total | — | — | — | — | — | — | — | — | — | — | 31.5 |

## 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 2.87 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 16.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 2.87 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 16.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 0.48 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 2.78 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.26 |

### 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 Mid Rise | — | — | — | — | — | — | — | — | — | — | 2.87 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 16.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 2.87 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 16.8 |
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.03 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 19.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | 0.48 |
| High Turnover (Sit Down Restaurant) | — | — | — | — | — | — | — | — | — | — | 2.78 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Strip Mall | — | — | — | — | — | — | — | — | — | — | 0.01 |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | < 0.005 |
| Total | — | — | — | — | — | — | — | — | — | — | 3.26 |

## 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 | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Emergency Generator | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Emergency Generator | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |
| Total | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |

### 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 | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Emergency Generator | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Total | 0.98 | 0.48 | 2.51 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 505 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Emergency Generator | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |
| Total | 0.10 | 0.05 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 45.8 |

## 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 | 3,300 | 3,300 | 3,300 | 1,204,500 | 24,351 | 24,351 | 24,351 | 8,888,115 |

### 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 | 3,300 | 3,300 | 3,300 | 1,204,500 | 24,351 | 24,351 | 24,351 | 8,888,115 |

## 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) |
|---|---|---|---|---|
| 811609.875 | 270,537 | 33,865 | 9,136 | 12,914 |

### 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 Mid Rise | 1,929,272 | 375 | 0.0489 | 0.0069 | 0.00 |
| High Turnover (Sit Down Restaurant) | 551,680 | 375 | 0.0489 | 0.0069 | 754,650 |
| Strip Mall | 76,893 | 375 | 0.0489 | 0.0069 | 0.00 |
| Enclosed Parking with Elevator | 810,638 | 375 | 0.0489 | 0.0069 | 0.00 |
| Recreational Swimming Pool | 757,662 | 375 | 0.0489 | 0.0069 | 0.00 |

### 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 Mid Rise | 1,929,272 | 375 | 0.0489 | 0.0069 | 0.00 |

| | | | | | |
|---|---|---|---|---|---|
| High Turnover (Sit Down Restaurant) | 551,680 | 375 | 0.0489 | 0.0069 | 754,650 |
| Strip Mall | 76,893 | 375 | 0.0489 | 0.0069 | 0.00 |
| Enclosed Parking with Elevator | 810,638 | 375 | 0.0489 | 0.0069 | 0.00 |
| Recreational Swimming Pool | 757,662 | 375 | 0.0489 | 0.0069 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Apartments Mid Rise | 18,226,888 | 213,425 |
| High Turnover (Sit Down Restaurant) | 3,262,077 | 0.00 |
| Strip Mall | 397,992 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Recreational Swimming Pool | 51,159 | 0.00 |

### 5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Apartments Mid Rise | 14,581,511 | 170,740 |
| High Turnover (Sit Down Restaurant) | 2,609,661 | 0.00 |
| Strip Mall | 318,393 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Recreational Swimming Pool | 40,927 | 0.00 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Apartments Mid Rise | 290 | — |
| High Turnover (Sit Down Restaurant) | 128 | — |
| Strip Mall | 5.64 | — |
| Enclosed Parking with Elevator | 0.00 | — |
| Recreational Swimming Pool | 4.93 | — |

### 5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Apartments Mid Rise | 68.3 | — |
| High Turnover (Sit Down Restaurant) | 30.2 | — |
| Strip Mall | 1.33 | — |
| Enclosed Parking with Elevator | 0.00 | — |
| Recreational Swimming Pool | 1.16 | — |

## 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 Mid 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 Mid 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 |
| 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 Mid 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 Mid 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 |
| 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 | 1.00 | 1.00 | 200 | 300 | 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 | 5.27 | annual days of extreme heat |
| Extreme Precipitation | 5.20 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | 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 | 35.2 |

| | |
|---|---|
| AQ-PM | 73.2 |
| AQ-DPM | 92.2 |
| Drinking Water | 52.7 |
| Lead Risk Housing | 68.5 |
| Pesticides | 0.00 |
| Toxic Releases | 84.4 |
| Traffic | 72.6 |
| Effect Indicators | — |
| CleanUp Sites | 64.4 |
| Groundwater | 75.5 |
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 9.67 |
| Sensitive Population | — |
| Asthma | 18.8 |
| Cardio-vascular | 44.1 |
| Low Birth Weights | 23.1 |
| Socioeconomic Factor Indicators | — |
| Education | 2.30 |
| Housing | 70.2 |
| Linguistic | 22.9 |
| Poverty | 31.3 |
| Unemployment | 0.33 |

## 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 | 48.32542025 |
| Employed | 65.58449891 |
| Median HI | 65.19953805 |
| Education | — |
| Bachelor's or higher | 76.02977031 |
| High school enrollment | 100 |
| Preschool enrollment | 6.762479148 |
| Transportation | — |
| Auto Access | 58.83485179 |
| Active commuting | 62.4534839 |
| Social | — |
| 2-parent households | 70.51199795 |
| Voting | 56.08879764 |
| Neighborhood | — |
| Alcohol availability | 24.11138201 |
| Park access | 81.35506224 |
| Retail density | 62.7229565 |
| Supermarket access | 58.60387527 |
| Tree canopy | 46.38778391 |
| Housing | — |
| Homeownership | 59.33530091 |
| Housing habitability | 44.78378032 |
| Low-inc homeowner severe housing cost burden | 7.442576671 |
| Low-inc renter severe housing cost burden | 34.42833312 |
| Uncrowded housing | 78.31387142 |
| Health Outcomes | — |
| Insured adults | 67.86860003 |
| Arthritis | 55.6 |

| | |
|---|---|
| Asthma ER Admissions | 59.4 |
| High Blood Pressure | 59.9 |
| Cancer (excluding skin) | 32.7 |
| Asthma | 65.7 |
| Coronary Heart Disease | 57.7 |
| Chronic Obstructive Pulmonary Disease | 59.8 |
| Diagnosed Diabetes | 64.3 |
| Life Expectancy at Birth | 42.2 |
| Cognitively Disabled | 29.3 |
| Physically  Disabled | 54.0 |
| Heart Attack ER Admissions | 41.3 |
| Mental Health Not Good | 61.1 |
| Chronic Kidney Disease | 73.0 |
| Obesity | 56.8 |
| Pedestrian Injuries | 71.3 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 35.4 |
| Current Smoker | 61.3 |
| No Leisure Time for Physical Activity | 69.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 61.0 |
| Elderly | 50.9 |
| English Speaking | 67.4 |
| Foreign-born | 16.2 |

| | |
|---|---|
| Outdoor Workers | 88.7 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 31.3 |
| Traffic Density | 52.3 |
| Traffic Access | 87.4 |
| Other Indices | — |
| Hardship | 26.2 |
| Other Decision Support | — |
| 2016 Voting | 52.1 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 36.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Characteristics: Utility Information | SB 100 for 2029 |
| Land Use | 2.4-acre site |
| Construction: Construction Phases | see construction assumptions |
| Construction: Off-Road Equipment | see construction assumptions |
| Construction: Trips and VMT | see construction assumptions |
| Construction: On-Road Fugitive Dust | Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which<br>the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily. |
| Construction: Electricity | SB 100 for 2025 |
| Operations: Hearths | No Hearths |
| Operations: Energy Use | All electric building except restaurant cooking.  Swimming pool, Spa, BBQs, and Electric Heater usage are included in the recreational swimming pool. |
| Operations: Generators + Pumps EF | SCAQMD Rule 1470 |
| Operations: Landscape Equipment | — |