

Appendices

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Air Quality and Greenhouse Gas Emissions

1811 Sacramento

MND FOR THE PROPOSED 1811 SACRAMENTO PROJECT

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Appendix IS-1.1-Air Quality and Greenhouse Gas
Emissions Methodology

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODOLOGY

1811 Sacramento Project

Prepared by:

Eyestone Environmental, LLC

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1811 Sacramento 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 1811 Sacramento Project (the “Project”). Emissions during both construction and operation of the Project were quantified. This assessment describes the methodology used to estimate the GHG and air pollutant emissions from existing and Project conditions and describes the methodology used to quantify GHG and air pollutant emission reductions from project design features and mitigation measures.

2. Air Pollutant and Greenhouse Gas Emissions Methodology

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

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

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

- Mobile source: emissions associated with vehicles accessing the project site; and
- Stationary source: emissions associated with stationary equipment (e.g., emergency generators).
- Refrigerants: fugitive GHG emissions associated with building air conditioning and refrigeration equipment.
- Indirect Emissions:
 - Energy source (building operations): emissions associated with energy consumption, and lighting;
 - Solid Waste: emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon; and
 - Water/Wastewater: emissions associated with energy used to pump, convey, deliver, and treat water.

a. Emission Inventories

Project-related construction and operation emissions were calculated using SCAQMD’s recommended California Emissions Estimator Model (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered by the SCAQMD to be an accurate and comprehensive tool for quantifying criteria pollutant and GHG impacts from land use projects throughout California.²

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

² See www.caleemod.com.

(1) Construction

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

(a) Emissions from Construction Equipment

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

Construction Off-Road Equipment:

$$\text{Emissions Diesel [lbs]} = \left(\sum_i (\text{EF}_i \times \text{Pop}_i \times \text{AvgHP}_i \times \text{Load}_i \times \text{Activity}_i) \right)$$

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. PM₁₀ and PM_{2.5} emissions from fugitive dust will be controlled by watering the construction site three times a day consistent with SCAQMD Rule 403 and were estimated to be reduced by 74 percent.

(b) Emissions from On-Road Trips

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

Construction On-Road Equipment:

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

Where: VMT = vehicle miles traveled (miles)

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

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

(c) Emissions from Architectural Coating

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

Construction Architectural Coating Emissions:

$$\text{Emissions Architectural Coatings (lbs)} = \text{EF}_{\text{AC}} \times F \times A_{\text{paint}}$$

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:

$$\text{EF}_{\text{AC}} = C_{\text{VOC}}/454(\text{g/lb}) \times 3.785(\text{L/gal})/180 \times \text{sf}$$

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:

$$\text{Emissions}_{\text{SAP}} (\text{lbs}) = \text{EF}_{\text{AP}} \times A_{\text{parking}}$$

Where: EF = emission factor (lb/acre)

A = area of the parking lot (acre)

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

(2) Operation

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

(3) Area Source Emissions

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

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

$$\text{Emissions Consumer Products (lbs)} = \text{EF}_{\text{CP}} \times \text{Building Area}$$

Where:

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

The factor is 1.98×10^{-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:

$$\text{Landscaping Equipment Emissions [lbs]} = (\sum_i (\text{Units} \times \text{EF}_{\text{LE}} \times \text{A}_{\text{LE}})_i)$$

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

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

i = Summation index

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

(4) Energy Emissions (Electricity and Natural Gas)

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

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

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

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

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

Electricity:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_E \times EF_E \times \text{GWP})_i) \div 2,204.62$$

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

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

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

GWP = Global warming potential [$\text{CO}_2 = 1$, $\text{CH}_4 = 21$, $\text{N}_2\text{O} = 310$]

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 2020 Power Content Label, which provides a CO_2 intensity of 579 pounds of CO_2 per MWh for 2020. 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:

$$\text{Natural Gas Emissions (lbs)} = (\sum_i (\text{Units} \times D_{\text{NG}} \times EF_{\text{NG}})_i)$$

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 the Fehr and Peers 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 EMFAC2017.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

$$\text{Mobile Emissions [lbs]} = (\sum_i (\text{Units} \times \text{ADT} \times D_{\text{TRIP}} \times \text{EF}_i)$$

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

ADT = Average daily trip rate [trips/day]

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

EF = Pollutant emission factor [pounds per mile]

i = Summation index

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

Mobile source operational emissions were calculated based on the Project VMT estimates provided by the Fehr and Peers.⁶ The Los Angeles Department of Transportation (LADOT) VMT Calculator was used.

Previously, trip generation for land uses was calculated based on survey data collected by the Institute of Transportation Engineers (ITE). However, these ITE trip generation rates were based on data collected at suburban, single-use, free standing sites, which may not be representative of urban mixed-use environments. Beginning in 2019, the USEPA has sponsored a study to collect travel survey data from mixed-use developments in order provide a more representative trip generation rate for multi-use sites. Results of the USEPA survey indicate that trip generation and VMT are affected by factors such as resident and job density, availability of transit, and accessibility of biking and walking paths. Based on these factors, the USEPA has developed equations known as the EPA Mixed-

⁶ *Linscott Law & Greenspan, subsequent revised Transportation Assessment for Paseo Marina Project, July 2021. Note: CalEEMod analysis for Option B overstates daily trips and VMT in comparison to the Transportation Assessment (5,589 versus 5,574 daily trips and 45,271 versus 45,178 VMT).*

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, HQT A 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:

$$\text{Emissions [lbs]} = (\text{Total HP} \times \text{LF} \times \text{HR} \times \text{EF})$$

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 April 1, 2022.

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 CO₂ and CH₄ 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:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_{\text{MSW}} \times EF_{\text{MSW}} \times \text{GWP})_i) \div 1.1023$$

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 [CO₂ = 1, CH₄ = 21, N₂O = 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 annual solid waste disposal rates used. The GHG emission factors, particularly for CH₄, 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 April 1, 2022.

(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):

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_w \times (\text{El}_w \div 1,000) \times \text{EF}_w \times \text{GWP})_i) \div 2,204.62$$

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]
El_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 [$\text{CO}_2 = 1$, $\text{CH}_4 = 21$, $\text{N}_2\text{O} = 310$]
2,205	=	Conversion factor [pounds/MT]
i	=	Summation index

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

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

water/wastewater usage accounts for a 20 percent reduction in water/wastewater emissions with implementation of CalGreen requirements.

(9) Refrigerant Emissions

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

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Air Quality Emissions Summary Winter

AQ SUMMARY OF EMISSIONS WINTER							
Construction Emissions (Unmitigated)							
Regional (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}	
2024	2	37	46	<1	8	2	
2025	2	17	34	<1	5	1	
2026	1	17	33	<1	5	1	
MAX	2	37	46	<1	8	2	
Threshold	75	100	550	150	150	55	
Difference	(73)	(63)	(504)	(150)	(142)	(53)	
Impact	No	No	No	No	No	No	
Localized (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}	
2024		14	40		2	<1	
2025		11	20		<1	<1	
2026		11	20		<1	<1	
MAX		14	40		2	<1	
Threshold		88	3310		74	36	
Difference		(75)	(3,270)		(72)	(35)	
Impact		No	No		No	No	
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	<1	<1	2	<1	<1	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	1	<1	2	<1	<1	<1	
Existing Regional Emissions (Buildout 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	<1	<1	2	<1	<1	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	1	<1	2	<1	<1	<1	
Project Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}	
Area	7	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	8	7	64	<1	6	1	
Emergency Generator	<1	1	1	<1	<1	<1	
Total	16	8	65	<1	6	1	
Incremental Regional Emissions (Project Less Existing)	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}	
Area	6	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	8	6	62	<1	6	1	
Emergency Generator	<1	1	1	<1	<1	<1	
Total	15	8	63	<1	6	1	
Threshold	55	55	550	150	150	55	
Difference	(40)	(47)	(487)	(150)	(144)	(54)	
Impact	No	No	No	No	No	No	
Project Localized (Buildout Year)							
Onsite Total		1	1		<1	<1	
Threshold		88	3310		18	9	
Difference		(87)	(3309)		(18)	(9)	
Impact		No	No		No	No	

1811 Sacramento
Air Quality Emissions Summary Summer

AQ SUMMARY OF EMISSIONS SUMMER							
Construction Emissions (Unmitigated)							
Regional (Daily) Unmitigated		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	2024	2	20	38	<1	5	1
	2025	2	17	36	<1	5	1
	2026	34	16	35	<1	5	1
	MAX	34	20	38	<1	5	1
	Threshold	75	100	550	150	150	55
	Difference	(41)	(80)	(513)	(150)	(145)	(54)
	Impact	No	No	No	No	No	No
Localized (Daily) Unmitigated		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	2024		11	27		1	<1
	2025		11	20		<1	<1
	2026		11	20		<1	<1
	MAX		11	27		1	<1
	Threshold		88	3310		74	36
	Difference		(77)	(3,283)		(72)	(35)
	Impact		No	No		No	No
Operation Emissions (Without Project Design Features)							
Existing Regional Emissions (Existing Year)		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	Area	1	<1	2	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	<1	<1	2	<1	<1	<1
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	2	<1	4	<1	<1	<1
Existing Regional Emissions (Buildout Year)		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	Area	1	<1	2	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	<1	<1	2	<1	<1	<1
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	2	<1	4	<1	<1	<1
Project Regional Emissions (Buildout Year)		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	Area	11	<1	23	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	9	6	69	<1	6	1
	Emergency Generator	<1	1	1	<1	<1	<1
	Total	20	8	93	<1	6	1
Incremental Regional Emissions (Project Less Existing)		ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
	Area	9	<1	21	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	8	6	67	<1	6	1
	Emergency Generator	<1	1	1	<1	<1	<1
	Total	18	7	89	<1	6	1
	Threshold	55	55	550	150	150	55
	Difference	(37)	(48)	(461)	(150)	(144)	(54)
	Impact	No	No	No	No	No	No
Project Localized (Buildout Year)							
	Onsite Total		1	22		<1	<1
	Threshold		88	3,310		18	9
	Difference		(87)	(3,288)		(18)	(9)
	Impact		No	No		No	No

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

Central LA NO2 Monitoring Data

SRA	City	Design Value	98th percentile, ppb			
		2014-2016	2017	2018	2019	2020
1	Central LA	56	57	56	55	

SRA	City	Design Value	Max Hourly, ppb			
		2006-2008	2017	2018	2019	2020
1	Central LA	120	70	70	62	

Threshold (ppb) Allowable Increase (ppb)
100 44

Threshold (ppb) Allowable Increase (ppb)
180 60

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

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

LST Threshold (SRA 1, 1.71 acre, 195 meter receptor)

Distance	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)
25	94	70	919	7	4	2	1
50	93	69	1190	22	6	5	2
100	100	73	1613	40	11	10	3
200	119	88	2816	77	27	19	7
500	176	130	8415	187	107	45	26
195	120	88	3310	74	36	18	9

<----Interpolated Value

1811 Sacramento Street
Air Quality 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	1/29/2024	8/11/2026	31	793		20	4460	
Demolition	1/29/2024	3/15/2024	2	35	80	10	350	3
Grading/Excavation	3/16/2024	4/12/2024	1	20	20	45	843	3
Grading/Excavation (Contaminated Soil)*	3/17/2024	3/18/2024	0	1	-	15	15	-
Mat Foundation	4/13/2024	6/17/2024	2	46	30	15	690	60
Building Foundation	6/18/2024	7/9/2024	1	16	30	5	80	20
Building Construction	7/10/2024	4/20/2026	21	464	200	5	2,320	50
Paving/Landscape	4/21/2026	8/11/2026	4	81	20	2	162	10
Site Acreage								
	1.7							
Demolition Quantities								
Building Square Footage (SF)	40,479							
Parking (SF)	23,600							
Parking (spaces)								
Import/Export Quantities during Grading (CY)								
Import	-							
Export	11,800							

*Note: Truck trips during Grading/Excavation (Contaminated Soils) will come out of the overall trucks trips during Grading/Excavation and do not contribute additional trips. 15 hauls of soil will be taken to Buttonwillow 142 miles from the Project site.

Landfill Location	Distance (miles)
Vulcan Irwindale	23
Buttomwillow	142

Equipment						
	Demo	Grading/Excavation	Mat Foundation	Foundation	Building Construction	Paving/Landscape
Air Compressor	1	1	2	2	2	
Aerial Lift			2	2	2	
Bore/Drill Rig		1				
Cement and Mortar Mixers						1
Concrete/Industrial Saws	3					1
Cranes (Tower)			2	2	2	
Cranes (Mobile)	1				1	
Crawler Tractors	1	2				
Crushing/Proc. Equipment	1					
Excavators	3	2				
Forklifts			1	1	1	1
Generator Sets	3	3	1	1	1	1
Graders		1				
Off-Highway Tractors						
Water Truck	1	1				
Pavers						1
Paving Equipment						1
Pumps	3	3	3	3		
Plate Compactors						1
Rollers		1				1
Rough Terrain Forklifts						
Rubber Tired Dozers						
Rubber Tired Loaders	1	1				
Scrapers						
Signal Boards	1	1	1	1	1	1
Skid Steer Loaders	1	1	1	1	1	1
Surfacing Equipment						
Tractors/Loaders/Backhoes						
Trenchers						
Welders	1		1	1	5	
Other ()						
Total Pieces	21	18	14	14	16	10

1811 Sacramento - Existing Baseline (2022) Detailed Report

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Data Field	Value
Project Name	1811 Sacramento - Existing Baseline (2022)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	1811 Sacramento St, Los Angeles, CA 90021, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4034
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

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
Parking Lot	23.6	1000sqft	0.54	0.00	500	0.00	—	—
Unrefrigerated Warehouse-Rail	40.5	1000sqft	0.93	40,479	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.	1.57	0.43	4.39	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,364
Mit.	1.57	0.43	4.39	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,309
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.28	0.44	2.45	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,333
Mit.	1.28	0.44	2.45	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,278
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	0.45	3.71	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,345
Mit.	1.47	0.45	3.71	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,290
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.27	0.08	0.68	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	388
Mit.	0.27	0.08	0.68	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	379

% Reduced	—	—	—	—	—	—	—	—	—	—	2%
-----------	---	---	---	---	---	---	---	---	---	---	----

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	0.30	0.24	2.49	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	507
Area	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174
Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.57	0.43	4.39	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,364
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.26	2.31	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	484
Area	0.97	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174
Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.28	0.44	2.45	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,333
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	2.36	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	491
Area	1.17	0.01	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.10
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174

Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.47	0.45	3.71	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,345
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.43	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	81.2
Area	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	86.9
Water	—	—	—	—	—	—	—	—	—	—	28.8
Waste	—	—	—	—	—	—	—	—	—	—	11.9
Refrig.	—	—	—	—	—	—	—	—	—	—	179
Total	0.27	0.08	0.68	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	388

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	0.30	0.24	2.49	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	507
Area	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.57	0.43	4.39	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.26	2.31	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	484
Area	0.97	—	—	—	—	—	—	—	—	—	—

Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.28	0.44	2.45	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,278
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	2.36	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	491
Area	1.17	0.01	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.10
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	525
Water	—	—	—	—	—	—	—	—	—	—	174
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.47	0.45	3.71	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,290
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.43	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	81.2
Area	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	86.9
Water	—	—	—	—	—	—	—	—	—	—	28.8
Waste	—	—	—	—	—	—	—	—	—	—	2.80
Refrig.	—	—	—	—	—	—	—	—	—	—	179
Total	0.27	0.08	0.68	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	379

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	287
Total	—	—	—	—	—	—	—	—	—	—	319
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	287
Total	—	—	—	—	—	—	—	—	—	—	319
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.20
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	47.6
Total	—	—	—	—	—	—	—	—	—	—	52.8

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	287
Total	—	—	—	—	—	—	—	—	—	—	319
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	287
Total	—	—	—	—	—	—	—	—	—	—	319
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.20
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	47.6
Total	—	—	—	—	—	—	—	—	—	—	52.8

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1

4.3. Area Emissions by Source

4.3.2. 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	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Total	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Total	0.97	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.16	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84
Total	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84

4.3.1. 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	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Total	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Total	0.97	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.16	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84
Total	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.84

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.06
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	174
Total	—	—	—	—	—	—	—	—	—	—	174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.06
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	174
Total	—	—	—	—	—	—	—	—	—	—	174
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.01
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	28.8
Total	—	—	—	—	—	—	—	—	—	—	28.8

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.06
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	174
Total	—	—	—	—	—	—	—	—	—	—	174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.06
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	174
Total	—	—	—	—	—	—	—	—	—	—	174
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.01
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	28.8
Total	—	—	—	—	—	—	—	—	—	—	28.8

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	71.7
Total	—	—	—	—	—	—	—	—	—	—	71.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	71.7
Total	—	—	—	—	—	—	—	—	—	—	71.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	11.9

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	16.9
Total	—	—	—	—	—	—	—	—	—	—	16.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	16.9
Total	—	—	—	—	—	—	—	—	—	—	16.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	2.80
Total	—	—	—	—	—	—	—	—	—	—	2.80

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)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Annual	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	179
Total	—	—	—	—	—	—	—	—	—	—	179

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)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Annual	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	179
Total	—	—	—	—	—	—	—	—	—	—	179

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	76.0	76.0	76.0	27,740	579	579	579	211,335

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	76.0	76.0	76.0	27,740	579	579	579	211,335

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	60,719	20,240	1,416

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)
Parking Lot	20,674	551	0.0489	0.0069	0.00
Unrefrigerated Warehouse-Rail	189,313	551	0.0489	0.0069	641,028

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)
Parking Lot	20,674	551	0.0489	0.0069	0.00
Unrefrigerated Warehouse-Rail	189,313	551	0.0489	0.0069	641,028

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	7,012
Unrefrigerated Warehouse-Rail	9,360,769	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
----------	-------------------------	--------------------------

Parking Lot	0.00	7,012
Unrefrigerated Warehouse-Rail	9,360,769	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-Rail	38.1	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-Rail	8.98	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
Unrefrigerated Warehouse-Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.52	annual days of extreme heat

Extreme Precipitation	6.15	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 $\frac{3}{4}$ 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5
Lead Risk Housing	31.7
Pesticides	0.00

Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—
CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—
Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0
Unemployment	14.4

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	65.44334659
Employed	94.00744258
Median HI	73.54035673
Education	—

Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014
Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922
Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488
Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8
High Blood Pressure	93.7
Cancer (excluding skin)	91.6

Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8
No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8
Outdoor Workers	87.9
Climate Change Adaptive Capacity	—

Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4
Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Utility Information

Carbon Intensity for 2022

1811 Sacramento - Existing Buildout (2026) 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	1811 Sacramento - Existing Buildout (2026)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	1811 Sacramento St, Los Angeles, CA 90021, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4034
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

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
Parking Lot	23.6	1000sqft	0.54	0.00	500	0.00	—	—
Unrefrigerated Warehouse-Rail	40.5	1000sqft	0.93	40,479	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.	1.51	0.35	3.81	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,250
Mit.	1.51	0.35	3.81	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,196
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	0.35	1.92	0.01	0.02	0.16	0.18	0.02	0.03	0.04	2,222
Mit.	1.22	0.35	1.92	0.01	0.02	0.16	0.18	0.02	0.03	0.04	2,167
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.41	0.36	3.16	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,233
Mit.	1.41	0.36	3.16	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,179
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.07	0.58	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	370
Mit.	0.26	0.07	0.58	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	361

% Reduced	—	—	—	—	—	—	—	—	—	—	2%
-----------	---	---	---	---	---	---	---	---	---	---	----

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	0.24	0.16	1.91	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	460
Area	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158
Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.51	0.35	3.81	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,250
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.18	1.77	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	440
Area	0.97	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158
Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.22	0.35	1.92	0.01	0.02	0.16	0.18	0.02	0.03	0.04	2,222
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.82	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	446
Area	1.17	0.01	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.36
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158

Waste	—	—	—	—	—	—	—	—	—	—	71.7
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.41	0.36	3.16	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,233
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.04	0.03	0.33	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	73.8
Area	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	78.4
Water	—	—	—	—	—	—	—	—	—	—	26.2
Waste	—	—	—	—	—	—	—	—	—	—	11.9
Refrig.	—	—	—	—	—	—	—	—	—	—	179
Total	0.26	0.07	0.58	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	370

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	0.24	0.16	1.91	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	460
Area	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.51	0.35	3.81	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.18	1.77	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	440
Area	0.97	—	—	—	—	—	—	—	—	—	—

Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.22	0.35	1.92	0.01	0.02	0.16	0.18	0.02	0.03	0.04	2,167
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.18	1.82	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	446
Area	1.17	0.01	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.36
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	474
Water	—	—	—	—	—	—	—	—	—	—	158
Waste	—	—	—	—	—	—	—	—	—	—	16.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1,079
Total	1.41	0.36	3.16	0.01	0.02	0.16	0.18	0.02	0.03	0.05	2,179
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.04	0.03	0.33	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	73.8
Area	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	78.4
Water	—	—	—	—	—	—	—	—	—	—	26.2
Waste	—	—	—	—	—	—	—	—	—	—	2.80
Refrig.	—	—	—	—	—	—	—	—	—	—	179
Total	0.26	0.07	0.58	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	361

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	26.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	241
Total	—	—	—	—	—	—	—	—	—	—	268
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	26.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	241
Total	—	—	—	—	—	—	—	—	—	—	268
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.36
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	40.0
Total	—	—	—	—	—	—	—	—	—	—	44.3

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	26.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	241
Total	—	—	—	—	—	—	—	—	—	—	268
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	26.4
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	241
Total	—	—	—	—	—	—	—	—	—	—	268
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.36
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	40.0
Total	—	—	—	—	—	—	—	—	—	—	44.3

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1

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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	206
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Unrefrigerated Warehouse-Rail	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.1

4.3. Area Emissions by Source

4.3.2. 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	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Total	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Total	0.97	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.16	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89
Total	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89

4.3.1. 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	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Total	1.26	0.01	1.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.87	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—
Total	0.97	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.16	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89
Total	0.21	< 0.005	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.89

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.05
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	158
Total	—	—	—	—	—	—	—	—	—	—	158
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.05
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	158
Total	—	—	—	—	—	—	—	—	—	—	158
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.01
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	26.2
Total	—	—	—	—	—	—	—	—	—	—	26.2

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.05
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	158
Total	—	—	—	—	—	—	—	—	—	—	158
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.05
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	158
Total	—	—	—	—	—	—	—	—	—	—	158
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.01
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	26.2
Total	—	—	—	—	—	—	—	—	—	—	26.2

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	71.7
Total	—	—	—	—	—	—	—	—	—	—	71.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	71.7
Total	—	—	—	—	—	—	—	—	—	—	71.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	11.9
Total	—	—	—	—	—	—	—	—	—	—	11.9

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	16.9
Total	—	—	—	—	—	—	—	—	—	—	16.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	16.9
Total	—	—	—	—	—	—	—	—	—	—	16.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	2.80
Total	—	—	—	—	—	—	—	—	—	—	2.80

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)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Annual	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	179
Total	—	—	—	—	—	—	—	—	—	—	179

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)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	1,079
Total	—	—	—	—	—	—	—	—	—	—	1,079
Annual	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	179
Total	—	—	—	—	—	—	—	—	—	—	179

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	—	—	—	—	—	—	—	—	—	—	—
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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	76.0	76.0	76.0	27,740	579	579	579	211,335

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	76.0	76.0	76.0	27,740	579	579	579	211,335

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	60,719	20,240	1,416

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)
Parking Lot	20,674	462	0.0489	0.0069	0.00
Unrefrigerated Warehouse-Rail	189,313	462	0.0489	0.0069	641,028

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)
Parking Lot	20,674	462	0.0489	0.0069	0.00
Unrefrigerated Warehouse-Rail	189,313	462	0.0489	0.0069	641,028

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Parking Lot	0.00	7,012
Unrefrigerated Warehouse-Rail	9,360,769	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
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Parking Lot	0.00	7,012
Unrefrigerated Warehouse-Rail	9,360,769	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-Rail	38.1	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-Rail	8.98	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
Unrefrigerated Warehouse-Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.52	annual days of extreme heat

Extreme Precipitation	6.15	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 $\frac{3}{4}$ 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5
Lead Risk Housing	31.7
Pesticides	0.00

Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—
CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—
Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0
Unemployment	14.4

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	65.44334659
Employed	94.00744258
Median HI	73.54035673
Education	—

Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014
Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922
Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488
Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8
High Blood Pressure	93.7
Cancer (excluding skin)	91.6

Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8
No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8
Outdoor Workers	87.9
Climate Change Adaptive Capacity	—

Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4
Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Utility Information

Carbon Intensity for 2026

1811 Sacramento - 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	1811 Sacramento - Construction Onsite
Construction Start Date	1/29/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	1811 Sacramento St, Los Angeles, CA 90021, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4034
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.8

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
Government Office Building	278	1000sqft	1.71	277,700	41,500	0.00	—	—

High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—
Strip Mall	5.20	1000sqft	0.00	5,200	0.00	0.00	—	—
Enclosed Parking with Elevator	582	Space	0.00	232,800	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Water	W-4	Require Low-Flow Water Fixtures
Water	W-5	Design Water-Efficient Landscapes
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.	33.7	11.2	27.0	0.04	0.25	1.19	1.43	0.24	0.12	0.36	4,047
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	13.5	40.1	0.06	0.30	1.65	1.91	0.28	0.17	0.41	6,186
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.61	8.02	14.4	0.03	0.10	0.62	0.72	0.10	0.07	0.16	2,294

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.39	1.46	2.63	< 0.005	0.02	0.11	0.13	0.02	0.01	0.03	380

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)	—	—	—	—	—	—	—	—	—	—	—
2024	1.00	11.2	27.0	0.04	0.25	1.19	1.43	0.24	0.12	0.36	4,047
2025	0.58	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,211
2026	33.7	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,210
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	1.22	13.5	40.1	0.06	0.30	1.65	1.91	0.28	0.17	0.41	6,186
2025	0.57	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,213
2026	0.57	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,211
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	0.47	7.33	14.2	0.02	0.10	0.62	0.72	0.10	0.07	0.16	2,224
2025	0.41	8.02	14.4	0.03	0.07	0.62	0.70	0.07	0.06	0.13	2,294
2026	7.61	3.63	6.85	0.01	0.04	0.23	0.27	0.04	0.02	0.06	1,063
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.09	1.34	2.60	< 0.005	0.02	0.11	0.13	0.02	0.01	0.03	368
2025	0.07	1.46	2.63	< 0.005	0.01	0.11	0.13	0.01	0.01	0.02	380
2026	1.39	0.66	1.25	< 0.005	0.01	0.04	0.05	0.01	< 0.005	0.01	176

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)	—	—	—	—	—	—	—	—	—	—	—
2024	1.00	11.2	27.0	0.04	0.25	1.19	1.43	0.24	0.12	0.36	4,047
2025	0.58	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,211
2026	33.7	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,210
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	1.22	13.5	40.1	0.06	0.30	1.65	1.91	0.28	0.17	0.41	6,186
2025	0.57	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,213
2026	0.57	11.2	20.2	0.04	0.10	0.87	0.97	0.10	0.09	0.18	3,211
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	0.47	7.33	14.2	0.02	0.10	0.62	0.72	0.10	0.07	0.16	2,224
2025	0.41	8.02	14.4	0.03	0.07	0.62	0.70	0.07	0.06	0.13	2,294
2026	7.61	3.63	6.85	0.01	0.04	0.23	0.27	0.04	0.02	0.06	1,063
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.09	1.34	2.60	< 0.005	0.02	0.11	0.13	0.02	0.01	0.03	368
2025	0.07	1.46	2.63	< 0.005	0.01	0.11	0.13	0.01	0.01	0.02	380
2026	1.39	0.66	1.25	< 0.005	0.01	0.04	0.05	0.01	< 0.005	0.01	176

3. Construction Emissions Details

3.1. Demolition (2024) - 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	1.21	13.3	40.0	0.06	0.30	—	0.30	0.28	—	0.28	6,149
Demolition	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—
Onsite truck	0.01	0.20	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	28.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.28	3.83	0.01	0.03	—	0.03	0.03	—	0.03	590
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.70	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	97.6
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	0.45
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

3.2. Demolition (2024) - 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	1.21	13.3	40.0	0.06	0.30	—	0.30	0.28	—	0.28	6,149
Demolition	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—
Onsite truck	0.01	0.20	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	28.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.28	3.83	0.01	0.03	—	0.03	0.03	—	0.03	590
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.70	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	97.6
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	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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

3.3. Grading (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.70	0.51	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936

Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.73	0.53	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	105
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.55	1.45	< 0.005	0.01	—	0.01	0.01	—	0.01	216
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	35.7
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.94
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 (2024) - 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	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.70	0.51	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.73	0.53	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	105
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.55	1.45	< 0.005	0.01	—	0.01	0.01	—	0.01	216

Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	35.7
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.94
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. Grading (2024) - 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)	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.23	0.17	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	32.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01
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. Grading (2024) - 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)	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.23	0.17	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	32.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

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 Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.05	1.09	0.80	< 0.005	< 0.005	1.19	1.19	< 0.005	0.12	0.12	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	1.07	1.39	< 0.005	0.02	—	0.02	0.02	—	0.02	209
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	20.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.6
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.39
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

3.8. Building Construction (2024) - 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	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.05	1.09	0.80	< 0.005	< 0.005	1.19	1.19	< 0.005	0.12	0.12	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.07	1.39	< 0.005	0.02	—	0.02	0.02	—	0.02	209
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	20.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.6
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.39
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
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3.9. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.02	0.36	0.27	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	53.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.37	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	72.7
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
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

3.10. Building Construction (2024) - 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	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.02	0.36	0.27	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	53.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.37	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	72.7
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
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

3.11. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.80	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092

Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	3.57	6.70	0.01	0.03	—	0.03	0.03	—	0.03	1,059
Onsite truck	0.01	0.28	0.20	< 0.005	< 0.005	0.30	0.30	< 0.005	0.03	0.03	40.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.65	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	175
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.75
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 (2024) - 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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.80	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	3.57	6.70	0.01	0.03	—	0.03	0.03	—	0.03	1,059
Onsite truck	0.01	0.28	0.20	< 0.005	< 0.005	0.30	0.30	< 0.005	0.03	0.03	40.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.65	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	175
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.75
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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

3.13. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.79	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	7.44	14.0	0.02	0.07	—	0.07	0.07	—	0.07	2,209

Onsite truck	0.02	0.58	0.43	< 0.005	< 0.005	0.62	0.63	< 0.005	0.06	0.06	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.36	2.55	< 0.005	0.01	—	0.01	0.01	—	0.01	366
Onsite truck	< 0.005	0.11	0.08	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	13.9
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

3.14. Building Construction (2025) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.79	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	7.44	14.0	0.02	0.07	—	0.07	0.07	—	0.07	2,209
Onsite truck	0.02	0.58	0.43	< 0.005	< 0.005	0.62	0.63	< 0.005	0.06	0.06	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.36	2.55	< 0.005	0.01	—	0.01	0.01	—	0.01	366
Onsite truck	< 0.005	0.11	0.08	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	13.9
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.15. Building Construction (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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.78	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.82	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.24	4.21	0.01	0.02	—	0.02	0.02	—	0.02	666
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	24.9
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.41	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	110
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	4.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.78	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.82	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.24	4.21	0.01	0.02	—	0.02	0.02	—	0.02	666
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	24.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.41	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	110
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	4.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.17. Paving (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	0.41	5.30	11.2	0.02	0.10	—	0.10	0.09	—	0.09	1,646
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	25.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	1.18	2.48	< 0.005	0.02	—	0.02	0.02	—	0.02	365
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.60
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.5
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.93
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

3.18. Paving (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	0.41	5.30	11.2	0.02	0.10	—	0.10	0.09	—	0.09	1,646
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	25.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.09	1.18	2.48	< 0.005	0.02	—	0.02	0.02	—	0.02	365
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.60
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.5
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.93
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

3.19. Architectural Coating (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	33.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.39	—	—	—	—	—	—	—	—	—	—
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	1.35	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	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

3.20. Architectural Coating (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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	33.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.39	—	—	—	—	—	—	—	—	—	—
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	1.35	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	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

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	1/29/2024	3/15/2024	5.00	35.0	—
Grading	Grading	3/16/2024	4/12/2024	5.00	20.0	—
Grading (Contaminated Soil)	Grading	3/17/2024	3/18/2024	5.00	1.00	—
Mat Foundation	Building Construction	4/13/2024	6/17/2024	5.00	46.0	—
Building Foundation	Building Construction	6/18/2024	7/9/2024	5.00	16.0	—
Building Construction	Building Construction	7/10/2024	4/20/2026	5.00	464	—
Paving	Paving	4/21/2026	8/11/2026	5.00	81.0	—
Architectural Coating	Architectural Coating	4/21/2026	8/11/2026	5.00	81.0	—

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	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48

Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Demolition	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Demolition	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Demolition	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Grading	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Grading	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Grading	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Grading	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Mat Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Mat Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Mat Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Mat Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Mat Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82

Mat Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Building Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Grading	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42
Building Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	2.00	2.00	367	0.29
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	5.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73

Paving	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Paving	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Demolition	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Demolition	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Demolition	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Grading	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Grading	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Grading	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74

Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Grading	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Mat Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Mat Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Mat Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Mat Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Mat Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Mat Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Building Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Grading	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42

Building Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	2.00	2.00	367	0.29
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	5.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Paving	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Paving	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	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	23.1	HHDT
Demolition	Onsite truck	13.0	0.09	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	23.1	HHDT
Grading	Onsite truck	48.0	0.09	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	75.0	0.09	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	12.0	0.09	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 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	25.0	0.09	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	55.0	0.09	HHDT
Grading (Contaminated Soil)	—	—	—	—
Grading (Contaminated Soil)	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading (Contaminated Soil)	Vendor	0.00	10.2	HHDT,MHDT
Grading (Contaminated Soil)	Hauling	0.00	142	HHDT
Grading (Contaminated Soil)	Onsite truck	15.0	0.09	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	23.1	HHDT
Demolition	Onsite truck	13.0	0.09	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	23.1	HHDT
Grading	Onsite truck	48.0	0.09	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2

Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	75.0	0.09	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	12.0	0.09	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 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	25.0	0.09	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	55.0	0.09	HHDT
Grading (Contaminated Soil)	—	—	—	—
Grading (Contaminated Soil)	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading (Contaminated Soil)	Vendor	0.00	10.2	HHDT,MHDT
Grading (Contaminated Soil)	Hauling	0.00	142	HHDT

Grading (Contaminated Soil)	Onsite truck	15.0	0.09	HHDT
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5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	0.00	0.00	436,350	145,450	—

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	40,479	—
Grading	0.00	11,800	30.0	0.00	—
Grading (Contaminated Soil)	0.00	0.00	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

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

Water Demolished Area	2	36%	36%
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5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Government Office Building	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	3,810	506	0.05	0.01
2025	1,270	484	0.05	0.01
2026	1,270	462	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.52	annual days of extreme heat
Extreme Precipitation	6.15	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5
Lead Risk Housing	31.7
Pesticides	0.00
Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—

CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—
Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0
Unemployment	14.4

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	65.44334659
Employed	94.00744258
Median HI	73.54035673
Education	—
Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014

Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922
Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488
Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8
High Blood Pressure	93.7
Cancer (excluding skin)	91.6
Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2

Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8
No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8
Outdoor Workers	87.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4

Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2026
Land Use	CalEEMod guidance modified total project acreage to Project specific acreage and include sf of landscaped (Table 30 SCEA).

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	Constrained site with reduced speeds and paved areas would be utilized for haul activities.
Construction: Electricity	Carbon Intensities for 2024, 2025, and 2026
Operations: Energy Use	All Electric Building

1811 Sacramento - Project (2026) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	1811 Sacramento - Project (2026)
Construction Start Date	1/29/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	1811 Sacramento St, Los Angeles, CA 90021, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4034
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.8

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
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Government Office Building	278	1000sqft	1.71	277,700	41,500	0.00	—	—
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—
Strip Mall	5.20	1000sqft	0.00	5,200	0.00	0.00	—	—
Enclosed Parking with Elevator	582	Space	0.00	232,800	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Water	W-4	Require Low-Flow Water Fixtures
Water	W-5	Design Water-Efficient Landscapes
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.	33.8	20.0	37.5	0.09	0.35	4.53	4.68	0.33	0.99	1.14	12,216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	37.4	46.1	0.19	0.54	7.84	8.38	0.52	1.85	2.37	27,642
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—

Unmit.	7.81	12.1	24.8	0.04	0.14	3.21	3.32	0.13	0.70	0.79	7,105
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	2.21	4.52	0.01	0.03	0.59	0.61	0.02	0.13	0.14	1,176

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)	—	—	—	—	—	—	—	—	—	—	—
2024	1.59	20.0	37.5	0.09	0.35	4.53	4.68	0.33	0.99	1.14	12,216
2025	1.54	16.5	36.2	0.06	0.15	4.53	4.68	0.13	0.99	1.12	10,063
2026	33.8	16.2	35.1	0.06	0.15	4.53	4.68	0.13	0.99	1.11	9,936
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	1.61	37.4	46.1	0.19	0.54	7.84	8.38	0.52	1.85	2.37	27,642
2025	1.52	16.9	34.1	0.06	0.15	4.53	4.68	0.13	0.99	1.12	9,903
2026	1.40	16.6	33.2	0.06	0.15	4.53	4.68	0.13	0.99	1.11	9,780
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	0.91	11.6	21.3	0.04	0.14	2.43	2.57	0.13	0.52	0.66	6,376
2025	1.09	12.1	24.8	0.04	0.11	3.21	3.32	0.09	0.70	0.79	7,105
2026	7.81	5.05	10.1	0.02	0.06	1.12	1.18	0.05	0.24	0.29	2,753
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.17	2.11	3.89	0.01	0.03	0.44	0.47	0.02	0.10	0.12	1,056
2025	0.20	2.21	4.52	0.01	0.02	0.59	0.61	0.02	0.13	0.14	1,176
2026	1.42	0.92	1.85	< 0.005	0.01	0.20	0.21	0.01	0.04	0.05	456

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)	—	—	—	—	—	—	—	—	—	—	—
2024	1.59	20.0	37.5	0.09	0.35	4.53	4.68	0.33	0.99	1.14	12,216
2025	1.54	16.5	36.2	0.06	0.15	4.53	4.68	0.13	0.99	1.12	10,063
2026	33.8	16.2	35.1	0.06	0.15	4.53	4.68	0.13	0.99	1.11	9,936
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	1.61	37.4	46.1	0.19	0.54	7.84	8.38	0.52	1.85	2.37	27,642
2025	1.52	16.9	34.1	0.06	0.15	4.53	4.68	0.13	0.99	1.12	9,903
2026	1.40	16.6	33.2	0.06	0.15	4.53	4.68	0.13	0.99	1.11	9,780
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	0.91	11.6	21.3	0.04	0.14	2.43	2.57	0.13	0.52	0.66	6,376
2025	1.09	12.1	24.8	0.04	0.11	3.21	3.32	0.09	0.70	0.79	7,105
2026	7.81	5.05	10.1	0.02	0.06	1.12	1.18	0.05	0.24	0.29	2,753
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.17	2.11	3.89	0.01	0.03	0.44	0.47	0.02	0.10	0.12	1,056
2025	0.20	2.21	4.52	0.01	0.02	0.59	0.61	0.02	0.13	0.14	1,176
2026	1.42	0.92	1.85	< 0.005	0.01	0.20	0.21	0.01	0.04	0.05	456

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.	20.2	8.98	94.3	0.17	0.28	5.77	6.05	0.28	1.03	1.31	28,179
Mit.	20.2	8.98	94.3	0.17	0.28	5.77	6.05	0.28	1.03	1.31	26,579

% Reduced	—	—	—	—	—	—	—	—	—	—	6%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.4	9.36	66.5	0.16	0.25	5.77	6.02	0.24	1.03	1.27	27,361
Mit.	16.4	9.36	66.5	0.16	0.25	5.77	6.02	0.24	1.03	1.27	25,762
% Reduced	—	—	—	—	—	—	—	—	—	—	6%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.4	8.30	82.5	0.16	0.20	5.77	5.98	0.20	1.03	1.23	27,403
Mit.	18.4	8.30	82.5	0.16	0.20	5.77	5.98	0.20	1.03	1.23	25,804
% Reduced	—	—	—	—	—	—	—	—	—	—	6%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.36	1.52	15.1	0.03	0.04	1.05	1.09	0.04	0.19	0.22	4,537
Mit.	3.36	1.52	15.1	0.03	0.04	1.05	1.09	0.04	0.19	0.22	4,272
% Reduced	—	—	—	—	—	—	—	—	—	—	6%

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	8.55	6.04	69.0	0.16	0.10	5.77	5.88	0.10	1.03	1.12	16,640
Area	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505

Total	20.2	8.98	94.3	0.17	0.28	5.77	6.05	0.28	1.03	1.31	28,179
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.44	6.61	64.0	0.15	0.10	5.77	5.88	0.10	1.03	1.12	15,917
Area	6.96	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	16.4	9.36	66.5	0.16	0.25	5.77	6.02	0.24	1.03	1.27	27,361
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.37	6.67	65.5	0.16	0.10	5.77	5.88	0.10	1.03	1.12	16,123
Area	9.53	0.13	15.6	< 0.005	0.02	—	0.02	0.03	—	0.03	64.4
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	—	0.08	0.08	—	0.08	277
Total	18.4	8.30	82.5	0.16	0.20	5.77	5.98	0.20	1.03	1.23	27,403
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.53	1.22	12.0	0.03	0.02	1.05	1.07	0.02	0.19	0.21	2,669
Area	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,534
Water	—	—	—	—	—	—	—	—	—	—	163
Waste	—	—	—	—	—	—	—	—	—	—	112
Refrig.	—	—	—	—	—	—	—	—	—	—	2.19
Stationary	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8

Total	3.36	1.52	15.1	0.03	0.04	1.05	1.09	0.04	0.19	0.22	4,537
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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	8.55	6.04	69.0	0.16	0.10	5.77	5.88	0.10	1.03	1.12	16,640
Area	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	8,455
Water	—	—	—	—	—	—	—	—	—	—	708
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	20.2	8.98	94.3	0.17	0.28	5.77	6.05	0.28	1.03	1.31	26,579
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.44	6.61	64.0	0.15	0.10	5.77	5.88	0.10	1.03	1.12	15,917
Area	6.96	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	8,455
Water	—	—	—	—	—	—	—	—	—	—	708
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	16.4	9.36	66.5	0.16	0.25	5.77	6.02	0.24	1.03	1.27	25,762
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.37	6.67	65.5	0.16	0.10	5.77	5.88	0.10	1.03	1.12	16,123
Area	9.53	0.13	15.6	< 0.005	0.02	—	0.02	0.03	—	0.03	64.4

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	8,455
Water	—	—	—	—	—	—	—	—	—	—	708
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	—	0.08	0.08	—	0.08	277
Total	18.4	8.30	82.5	0.16	0.20	5.77	5.98	0.20	1.03	1.23	25,804
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.53	1.22	12.0	0.03	0.02	1.05	1.07	0.02	0.19	0.21	2,669
Area	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,400
Water	—	—	—	—	—	—	—	—	—	—	117
Waste	—	—	—	—	—	—	—	—	—	—	26.9
Refrig.	—	—	—	—	—	—	—	—	—	—	2.19
Stationary	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Total	3.36	1.52	15.1	0.03	0.04	1.05	1.09	0.04	0.19	0.22	4,272

3. Construction Emissions Details

3.1. Demolition (2024) - 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	1.21	13.3	40.0	0.06	0.30	—	0.30	0.28	—	0.28	6,149

Demolition	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—
Onsite truck	0.01	0.20	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	28.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.28	3.83	0.01	0.03	—	0.03	0.03	—	0.03	590
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.70	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	97.6
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	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.45	5.10	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,084
Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202
Hauling	0.03	2.07	0.75	0.01	0.02	0.43	0.45	0.02	0.12	0.14	1,704
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.51	0.00	0.00	0.10	0.10	0.00	0.02	0.02	106
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	19.4
Hauling	< 0.005	0.20	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	163
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.21
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	27.1

3.2. Demolition (2024) - 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	1.21	13.3	40.0	0.06	0.30	—	0.30	0.28	—	0.28	6,149
Demolition	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—
Onsite truck	0.01	0.20	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	28.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.28	3.83	0.01	0.03	—	0.03	0.03	—	0.03	590
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.70	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	97.6
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	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.45	5.10	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,084
Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202

Hauling	0.03	2.07	0.75	0.01	0.02	0.43	0.45	0.02	0.12	0.14	1,704
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.51	0.00	0.00	0.10	0.10	0.00	0.02	0.02	106
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	19.4
Hauling	< 0.005	0.20	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	163
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.21
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	27.1

3.3. Grading (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.70	0.51	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.73	0.53	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	105

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.55	1.45	< 0.005	0.01	—	0.01	0.01	—	0.01	216
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.70
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	35.7
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.94
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.51	0.00	0.00	0.26	0.26	0.00	0.06	0.06	287
Vendor	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202
Hauling	0.15	8.97	3.38	0.05	0.09	1.93	2.02	0.09	0.53	0.62	7,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	271
Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202
Hauling	0.14	9.31	3.37	0.05	0.09	1.93	2.02	0.09	0.53	0.62	7,666
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	15.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.01	0.52	0.18	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	420
Annual	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.50
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.83
Hauling	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	69.6

3.4. Grading (2024) - 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	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.70	0.51	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	9.98	26.5	0.04	0.25	—	0.25	0.24	—	0.24	3,936
Dust From Material Movement	—	—	—	—	—	0.41	0.41	—	0.04	0.04	—
Onsite truck	0.03	0.73	0.53	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	105
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.55	1.45	< 0.005	0.01	—	0.01	0.01	—	0.01	216
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.70

Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	35.7
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.94
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.51	0.00	0.00	0.26	0.26	0.00	0.06	0.06	287
Vendor	0.01	0.23	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202
Hauling	0.15	8.97	3.38	0.05	0.09	1.93	2.02	0.09	0.53	0.62	7,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	271
Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	202
Hauling	0.14	9.31	3.37	0.05	0.09	1.93	2.02	0.09	0.53	0.62	7,666
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	15.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.01	0.52	0.18	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	420
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.50
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.83
Hauling	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	69.6

3.5. Grading (2024) - 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)	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.23	0.17	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	32.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01
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	0.21	16.8	5.21	0.09	0.19	3.95	4.14	0.19	1.08	1.27	15,422
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	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	42.3
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	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.00

3.6. Grading (2024) - 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)	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.01	0.23	0.17	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	32.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01
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	0.21	16.8	5.21	0.09	0.19	3.95	4.14	0.19	1.08	1.27	15,422
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	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	42.3
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	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.00

3.7. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.05	1.09	0.80	< 0.005	< 0.005	1.19	1.19	< 0.005	0.12	0.12	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	1.07	1.39	< 0.005	0.02	—	0.02	0.02	—	0.02	209
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	20.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.6
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.39
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.13	6.23	2.70	0.03	0.05	1.13	1.19	0.05	0.31	0.36	4,644
Hauling	0.05	2.65	1.02	0.01	0.03	0.56	0.58	0.03	0.15	0.18	2,224
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	52.1
Vendor	0.02	0.82	0.34	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	585
Hauling	0.01	0.35	0.13	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	280
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.62
Vendor	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	96.8
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	46.4

3.8. Building Construction (2024) - 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	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.05	1.09	0.80	< 0.005	< 0.005	1.19	1.19	< 0.005	0.12	0.12	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.07	1.39	< 0.005	0.02	—	0.02	0.02	—	0.02	209
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	20.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.6
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.39
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.13	6.23	2.70	0.03	0.05	1.13	1.19	0.05	0.31	0.36	4,644
Hauling	0.05	2.65	1.02	0.01	0.03	0.56	0.58	0.03	0.15	0.18	2,224
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	52.1
Vendor	0.02	0.82	0.34	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	585
Hauling	0.01	0.35	0.13	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	280
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.62
Vendor	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	96.8

Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	46.4
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3.9. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.02	0.36	0.27	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	53.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.37	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	72.7
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.04	1.52	0.75	0.01	0.02	0.34	0.36	0.02	0.09	0.11	1,348
Hauling	0.02	0.88	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	59.0
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.00
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.77
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.37

3.10. Building Construction (2024) - 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	8.49	11.0	0.02	0.15	—	0.15	0.14	—	0.14	1,660
Onsite truck	0.02	0.36	0.27	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	53.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.37	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	72.7
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.04	1.52	0.75	0.01	0.02	0.34	0.36	0.02	0.09	0.11	1,348
Hauling	0.02	0.88	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	59.0
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.00
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.77
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.37

3.11. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.80	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092

Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	3.57	6.70	0.01	0.03	—	0.03	0.03	—	0.03	1,059
Onsite truck	0.01	0.28	0.20	< 0.005	< 0.005	0.30	0.30	< 0.005	0.03	0.03	40.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.65	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	175
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.75
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.90	0.96	15.1	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,866
Vendor	0.10	3.80	1.86	0.02	0.04	0.86	0.90	0.04	0.24	0.28	3,371
Hauling	0.02	0.88	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.88	1.13	12.8	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,709
Vendor	0.10	3.95	1.91	0.02	0.04	0.86	0.90	0.04	0.24	0.28	3,364
Hauling	0.01	0.92	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	740
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.39	4.59	0.00	0.00	0.88	0.88	0.00	0.21	0.21	943
Vendor	0.03	1.37	0.65	0.01	0.02	0.29	0.31	0.02	0.08	0.10	1,153
Hauling	0.01	0.32	0.12	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	254
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.07	0.84	0.00	0.00	0.16	0.16	0.00	0.04	0.04	156
Vendor	0.01	0.25	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	191
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	42.0

3.12. Building Construction (2024) - 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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.80	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	3.57	6.70	0.01	0.03	—	0.03	0.03	—	0.03	1,059
Onsite truck	0.01	0.28	0.20	< 0.005	< 0.005	0.30	0.30	< 0.005	0.03	0.03	40.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.65	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	175
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	6.75
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.90	0.96	15.1	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,866
Vendor	0.10	3.80	1.86	0.02	0.04	0.86	0.90	0.04	0.24	0.28	3,371
Hauling	0.02	0.88	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.88	1.13	12.8	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,709
Vendor	0.10	3.95	1.91	0.02	0.04	0.86	0.90	0.04	0.24	0.28	3,364
Hauling	0.01	0.92	0.34	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	740
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.39	4.59	0.00	0.00	0.88	0.88	0.00	0.21	0.21	943
Vendor	0.03	1.37	0.65	0.01	0.02	0.29	0.31	0.02	0.08	0.10	1,153
Hauling	0.01	0.32	0.12	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	254
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.07	0.84	0.00	0.00	0.16	0.16	0.00	0.04	0.04	156
Vendor	0.01	0.25	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	191
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	42.0

3.13. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.79	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	7.44	14.0	0.02	0.07	—	0.07	0.07	—	0.07	2,209

Onsite truck	0.02	0.58	0.43	< 0.005	< 0.005	0.62	0.63	< 0.005	0.06	0.06	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.36	2.55	< 0.005	0.01	—	0.01	0.01	—	0.01	366
Onsite truck	< 0.005	0.11	0.08	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	13.9
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.86	0.87	13.9	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,807
Vendor	0.09	3.61	1.76	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,317
Hauling	0.01	0.85	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.96	11.8	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,654
Vendor	0.09	3.76	1.78	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,310
Hauling	0.01	0.88	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	726
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.74	8.85	0.00	0.00	1.85	1.85	0.00	0.43	0.43	1,925
Vendor	0.07	2.70	1.26	0.02	0.03	0.61	0.64	0.02	0.17	0.18	2,366
Hauling	0.01	0.64	0.24	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	519
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.14	1.62	0.00	0.00	0.34	0.34	0.00	0.08	0.08	319
Vendor	0.01	0.49	0.23	< 0.005	0.01	0.11	0.12	< 0.005	0.03	0.03	392
Hauling	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	86.0

3.14. Building Construction (2025) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.79	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.83	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	7.44	14.0	0.02	0.07	—	0.07	0.07	—	0.07	2,209
Onsite truck	0.02	0.58	0.43	< 0.005	< 0.005	0.62	0.63	< 0.005	0.06	0.06	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.36	2.55	< 0.005	0.01	—	0.01	0.01	—	0.01	366
Onsite truck	< 0.005	0.11	0.08	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	13.9
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.86	0.87	13.9	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,807
Vendor	0.09	3.61	1.76	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,317
Hauling	0.01	0.85	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	728
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.96	11.8	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,654
Vendor	0.09	3.76	1.78	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,310
Hauling	0.01	0.88	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	726

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.74	8.85	0.00	0.00	1.85	1.85	0.00	0.43	0.43	1,925
Vendor	0.07	2.70	1.26	0.02	0.03	0.61	0.64	0.02	0.17	0.18	2,366
Hauling	0.01	0.64	0.24	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	519
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.14	1.62	0.00	0.00	0.34	0.34	0.00	0.08	0.08	319
Vendor	0.01	0.49	0.23	< 0.005	0.01	0.11	0.12	< 0.005	0.03	0.03	392
Hauling	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	86.0

3.15. Building Construction (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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.78	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.82	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.24	4.21	0.01	0.02	—	0.02	0.02	—	0.02	666
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	24.9
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.41	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	110
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	4.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.78	12.9	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,750
Vendor	0.09	3.44	1.66	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,262
Hauling	0.01	0.82	0.32	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	715
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.87	11.0	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,600
Vendor	0.09	3.59	1.70	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,255
Hauling	0.01	0.85	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	714
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.20	2.48	0.00	0.00	0.56	0.56	0.00	0.13	0.13	569
Vendor	0.02	0.78	0.36	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.06	701
Hauling	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	154
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	94.2
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	116
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.5

3.16. Building Construction (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	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.04	0.78	0.59	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	10.4	19.6	0.03	0.10	—	0.10	0.10	—	0.10	3,092
Onsite truck	0.03	0.82	0.61	< 0.005	< 0.005	0.87	0.88	< 0.005	0.09	0.09	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.24	4.21	0.01	0.02	—	0.02	0.02	—	0.02	666
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	24.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.41	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	110
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	4.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.78	12.9	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,750
Vendor	0.09	3.44	1.66	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,262
Hauling	0.01	0.82	0.32	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	715
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.87	11.0	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,600
Vendor	0.09	3.59	1.70	0.02	0.04	0.86	0.90	0.02	0.24	0.26	3,255
Hauling	0.01	0.85	0.33	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	714
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.20	2.48	0.00	0.00	0.56	0.56	0.00	0.13	0.13	569
Vendor	0.02	0.78	0.36	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.06	701

Hauling	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	154
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	94.2
Vendor	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	116
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.5

3.17. Paving (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	0.41	5.30	11.2	0.02	0.10	—	0.10	0.09	—	0.09	1,646
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	25.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	1.18	2.48	< 0.005	0.02	—	0.02	0.02	—	0.02	365
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.60
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.5
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.93
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.29	0.00	0.00	0.26	0.26	0.00	0.06	0.06	275
Vendor	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05	652
Hauling	< 0.005	0.33	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	286
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	58.6
Vendor	< 0.005	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	145
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.71
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.9
Hauling	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.5

3.18. Paving (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	0.41	5.30	11.2	0.02	0.10	—	0.10	0.09	—	0.09	1,646
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.17	0.13	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	25.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.09	1.18	2.48	< 0.005	0.02	—	0.02	0.02	—	0.02	365
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	5.60
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.5
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.93
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.29	0.00	0.00	0.26	0.26	0.00	0.06	0.06	275
Vendor	0.02	0.69	0.33	< 0.005	0.01	0.17	0.18	< 0.005	0.05	0.05	652
Hauling	< 0.005	0.33	0.13	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	286
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	58.6
Vendor	< 0.005	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	145
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.71
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.9
Hauling	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.5

3.19. Architectural Coating (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	33.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.39	—	—	—	—	—	—	—	—	—	—
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	1.35	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	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

3.20. Architectural Coating (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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	33.3	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.39	—	—	—	—	—	—	—	—	—	—
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	1.35	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	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

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536

Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	1,302
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	32.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	111
Total	—	—	—	—	—	—	—	—	—	—	1,534

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,052
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	8,455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,052
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	8,455
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	1,167
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	32.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	111

Total	—	—	—	—	—	—	—	—	—	—	1,400
-------	---	---	---	---	---	---	---	---	---	---	-------

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.74	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Total	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Total	6.96	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Total	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7

4.3.1. 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	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.74	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Total	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—

Total	6.96	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Total	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	936
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	41.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.51
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	984
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	936

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	41.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.51
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	984
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	155
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.79
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.08
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	674
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.70

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	708
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	674
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.70
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	708
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	112
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.91
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.78
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	117

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	487
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	180
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	677
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	487
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	180
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	677
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	80.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.70

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	112

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	43.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	43.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	162

Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	19.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	7.13
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.41
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	26.9

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.11
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	2.07
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	2.19

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.11
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	2.07
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	2.19

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	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8

Total	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
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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	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/29/2024	3/15/2024	5.00	35.0	—
Grading	Grading	3/16/2024	4/12/2024	5.00	20.0	—
Grading (Contaminated Soil)	Grading	3/17/2024	3/18/2024	5.00	1.00	—
Mat Foundation	Building Construction	4/13/2024	6/17/2024	5.00	46.0	—
Building Foundation	Building Construction	6/18/2024	7/9/2024	5.00	16.0	—
Building Construction	Building Construction	7/10/2024	4/20/2026	5.00	464	—

Paving	Paving	4/21/2026	8/11/2026	5.00	81.0	—
Architectural Coating	Architectural Coating	4/21/2026	8/11/2026	5.00	81.0	—

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	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Demolition	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Demolition	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Demolition	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Grading	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Grading	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Grading	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Grading	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82

Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Mat Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Mat Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Mat Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Mat Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Mat Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Mat Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Building Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Grading	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42
Building Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	2.00	2.00	367	0.29
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29

Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	5.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Paving	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Paving	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Demolition	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Demolition	Pumps	Diesel	Average	3.00	8.00	11.0	0.74

Demolition	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Grading	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Grading	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Grading	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Grading	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Mat Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Mat Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Mat Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Mat Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Mat Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Mat Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Mat Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Foundation	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Building Foundation	Pumps	Diesel	Average	3.00	8.00	11.0	0.74
Building Foundation	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Foundation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Grading	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42
Building Foundation	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	2.00	2.00	367	0.29
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Building Construction	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	5.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Paving	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Paving	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

Paving	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	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	80.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	20.0	23.1	HHDT
Demolition	Onsite truck	13.0	0.09	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	6.00	10.2	HHDT,MHDT
Grading	Hauling	90.0	23.1	HHDT
Grading	Onsite truck	48.0	0.09	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	30.0	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	120	10.2	HHDT
Mat Foundation	Hauling	30.0	20.0	HHDT
Mat Foundation	Onsite truck	75.0	0.09	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	20.0	10.2	HHDT,MHDT
Paving	Hauling	4.00	20.0	HHDT
Paving	Onsite truck	12.0	0.09	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 Foundation	—	—	—	—
Building Foundation	Worker	30.0	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	40.0	10.2	HHDT,MHDT
Building Foundation	Hauling	10.0	20.0	HHDT
Building Foundation	Onsite truck	25.0	0.09	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	200	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	10.0	20.0	HHDT
Building Construction	Onsite truck	55.0	0.09	HHDT
Grading (Contaminated Soil)	—	—	—	—
Grading (Contaminated Soil)	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading (Contaminated Soil)	Vendor	0.00	10.2	HHDT,MHDT
Grading (Contaminated Soil)	Hauling	30.0	142	HHDT
Grading (Contaminated Soil)	Onsite truck	15.0	0.09	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	80.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	20.0	23.1	HHDT

Demolition	Onsite truck	13.0	0.09	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	6.00	10.2	HHDT,MHDT
Grading	Hauling	90.0	23.1	HHDT
Grading	Onsite truck	48.0	0.09	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	30.0	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	120	10.2	HHDT
Mat Foundation	Hauling	30.0	20.0	HHDT
Mat Foundation	Onsite truck	75.0	0.09	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	20.0	10.2	HHDT,MHDT
Paving	Hauling	4.00	20.0	HHDT
Paving	Onsite truck	12.0	0.09	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 Foundation	—	—	—	—
Building Foundation	Worker	30.0	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	40.0	10.2	HHDT,MHDT
Building Foundation	Hauling	10.0	20.0	HHDT
Building Foundation	Onsite truck	25.0	0.09	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	200	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	100	10.2	HHDT,MHDT
Building Construction	Hauling	10.0	20.0	HHDT
Building Construction	Onsite truck	55.0	0.09	HHDT
Grading (Contaminated Soil)	—	—	—	—
Grading (Contaminated Soil)	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading (Contaminated Soil)	Vendor	0.00	10.2	HHDT,MHDT
Grading (Contaminated Soil)	Hauling	30.0	142	HHDT
Grading (Contaminated Soil)	Onsite truck	15.0	0.09	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	436,350	145,450	—

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)
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Demolition	0.00	0.00	0.00	40,479	—
Grading	0.00	11,800	30.0	0.00	—
Grading (Contaminated Soil)	0.00	0.00	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Government Office Building	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	3,810	463	0.05	0.01
2025	1,270	443	0.05	0.01
2026	1,270	422	0.05	0.01

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	2,668	2,668	2,668	973,820	20,724	20,724	20,724	7,564,260

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	2,668	2,668	2,668	973,820	20,724	20,724	20,724	7,564,260

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	436,350	145,450	—

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)
Government Office Building	6,167,092	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	420,857	462	0.0489	0.0069	0.00
Strip Mall	155,966	462	0.0489	0.0069	0.00
Enclosed Parking with Elevator	524,475	462	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)
Government Office Building	5,531,758	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	420,857	462	0.0489	0.0069	0.00
Strip Mall	155,966	462	0.0489	0.0069	0.00
Enclosed Parking with Elevator	524,475	462	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)
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Government Office Building	55,167,795	582,020
High Turnover (Sit Down Restaurant)	2,428,270	0.00
Strip Mall	385,177	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	39,787,014	216,340
High Turnover (Sit Down Restaurant)	1,754,182	0.00
Strip Mall	278,252	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	258.26	0.00
High Turnover (Sit Down Restaurant)	95.20	0.00
Strip Mall	5.46	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	61.98	0.00
High Turnover (Sit Down Restaurant)	22.85	0.00
Strip Mall	1.31	0.00

Enclosed Parking with Elevator	0.00	0.00
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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
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

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

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
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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)
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5.17. User Defined

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.52	annual days of extreme heat
Extreme Precipitation	6.15	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 $\frac{3}{4}$ 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5
Lead Risk Housing	31.7
Pesticides	0.00
Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—
CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—

Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0
Unemployment	14.4

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	65.44334659
Employed	94.00744258
Median HI	73.54035673
Education	—
Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014
Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922

Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488
Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8
High Blood Pressure	93.7
Cancer (excluding skin)	91.6
Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2

Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8
No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8
Outdoor Workers	87.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4
Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2026
Land Use	CalEEMod guidance modified total project acreage to Project specific acreage and include sf of landscaped (Table 30 SCEA).
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	Constrained site with reduced speeds and paved areas would be utilized for haul activities.
Construction: Electricity	Carbon Intensities for 2024, 2025, and 2026
Operations: Energy Use	All Electric Building

1811 Sacramento

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

Direction	Santa Fe Ave and 7th Street	
	Future with Project	
	AM	PM
Total Intersection Volume	5131	5054
Max Daily Trips ^a	72,370	67,387
Caltrans K Factor (%) ^b	7.09%	7.50%

^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 10 Freeway Monitoring Station, Postmile 19 which is closest to the Project site. Please refer to: <https://dot.ca.gov/programs/traffic-operations/census>

1811 Sacramento

MND FOR THE PROPOSED 1811 SACRAMENTO PROJECT

Appendix IS-1.3-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix IS-1.3: Greenhouse Gas Worksheets and Modeling Output Files
 - Appendix IS-1.3.1: GHG Modeling Parameters and Summary of Emissions
 - GHG Emissions Summary
 - GHG Parameters and Summary
 - VMT Calculations
 - Electric Vehicle Charging Calculations
 - SB 100
 - Appendix IS-1.3.2: CalEEMod Outputs
 - Project Operations No MXD

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Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project with no PDFs	Project with PDFs	
Baseline (Baseline Year)^a	CO₂e	CO₂e	
Area	1	1	
Energy (Natural Gas)	87	87	
Mobile	81	81	
Emergency Generators	0	0	
Solid Waste	3	3	
Water/Wastewater	29	29	
Refrig.	179	179	
Total	380	380	
Baseline (Buildout Year)^a	CO₂e	CO₂e	
Area	1	1	
Energy (Natural Gas)	78	78	
Mobile	74	74	
Mechanical Parking Lifts	0	0	
Emergency Generators	0	0	
Solid Waste	3	3	
Water/Wastewater	26	26	
Refrig.	179	179	
Total	361	361	
Buildout (Buildout Year)^b			
Area	11	11	
Energy (Natural Gas and Electricity) ^b	1,534	1,400	
Mobile	4,054	2,669	
Mechanical Parking Lifts	222	222	
Electric Vehicle Charging Credit	(70)	(70)	
Emergency Generators	23	23	
Solid Waste	27	27	
Water/Wastewater	130	117	
Refrig.	2	2	
Construction	90	90	
Total	6,022	4,490	
Project (Buildout less Baseline)			
Area	10	10	
Energy (Natural Gas and Electricity)	1,456	1,322	
Mobile	3,980	2,595	
Mechanical Parking Lifts	222	222	
Electric Vehicle Charging Credit	(70)	(70)	
Emergency Generators	23	23	
Solid Waste	24	24	
Water/Wastewater	104	91	
Refrig.	(177)	(177)	
Construction	90	90	
Total	5,661	4,129	(1,532)

^a Existing Uses

^b Please refer to CalEEMod outputs for Future uses

1811 Sacramento
LADOT VMT Calculator Data

3/29/2021

VMT Summary

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	76	2,668	2,668	1	1	1.00
Daily VMT	579	20,724	20,724			

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	0	0.0%	0	7.1	0	0	
Home Based Other Production	0	0.0%	0	5.1	0	0	
Non-Home Based Other Production	612	-4.1%	587	8.3	5,080	4,872	
Home-Based Work Attraction	1,562	-22.1%	1217	8.3	12,965	10,101	
Home-Based Other Attraction	1,306	-47.3%	688	6.9	9,011	4,747	
Non-Home Based Other Attraction	612	-4.1%	587	7.2	4,406	4,226	
Total	4,092				31,462	23,946	24%

Project with TDM (MXD Data)

	Proposed Project			Project with Mitigation Measures			Reduction vs. Unadjusted MXD (%)
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT	
Home Based Work Production	-11.8%	0	0	-11.8%	0	0	
Home Based Other Production	-11.8%	0	0	-11.8%	0	0	
Non-Home Based Other Production	-11.8%	518	4,298	-11.8%	518	4,298	
Home-Based Work Attraction	-15.8%	1,025	8,510	-15.8%	1,025	8,510	
Home-Based Other Attraction	-11.8%	607	4,188	-11.8%	607	4,188	
Non-Home Based Other Attraction	-11.8%	518	3,728	-11.8%	518	3,728	
Total		2,668	20,724		2,668	20,724	34%
Employee VMT			0			8,510	
Employee VMT (percent of total)						0.410635013	
Residential VMT						0	
Residential VMT (percent of total)						0	

Source: Gibson Transportation

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

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

LADWP Electricity Emission Factor ¹	0.21 MTCO ₂ E/MWh
Fuel Economy of Electric Vehicle ²	0.38 kWh/mile
Electric Vehicle GHG Emissions	79.9 grams/mile
GHG Emissions from Employee Miles Traveled (CalEEMod) ³	306.0 grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	226.1 grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Employee Average Yearly VMT with TDM and PDFs ⁴	3,106,150 miles/year
Percent of Employee Miles Driven in Electric Vehicles due to this Measure	10.0%
Employee VMT that is Displaced by Evs due to this Measure	310,615 miles/year
GHG Emissions Reduction from Employee Electric Vehicles	70 MTCO₂E/MWh

Energy Usage **118,478**

Notes:

- 1) CO₂ intensity factor reflects a 2026 RPS for LADWP (422 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 utilized 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/>).

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SB100 - Renewable Portfolio Standards

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)
2020	37	-6%	579
2021	35	6%	609
2024	44	-20%	484
2027	52	-15%	410
2030	60	-13%	355
2036	65	-8%	328
2045	100	-35%	0

Build Out Year	Carbon Intensity (lbs/MWh)
2026	462

1811 Sacramento - Project No MXD/PDFs (2026) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	1811 Sacramento - Project No MXD/PDFs (2026)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	1811 Sacramento St, Los Angeles, CA 90021, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4034
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

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
Government Office Building	278	1000sqft	1.71	277,700	41,500	0.00	—	—
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—

Strip Mall	5.20	1000sqft	0.00	5,200	0.00	0.00	—	—
Enclosed Parking with Elevator	582	Space	0.00	232,800	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.	24.8	12.1	130	0.25	0.33	8.76	9.10	0.33	1.56	1.89	36,809
Mit.	24.8	12.1	130	0.25	0.33	8.76	9.10	0.33	1.56	1.89	36,098
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.9	12.8	99.9	0.24	0.30	8.76	9.06	0.29	1.56	1.85	35,617
Mit.	20.9	12.8	99.9	0.24	0.30	8.76	9.06	0.29	1.56	1.85	34,906
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.9	11.8	117	0.24	0.26	8.76	9.02	0.25	1.56	1.81	35,766
Mit.	22.9	11.8	117	0.24	0.26	8.76	9.02	0.25	1.56	1.81	35,055

% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.18	2.15	21.3	0.04	0.05	1.60	1.65	0.05	0.28	0.33	5,921
Mit.	4.18	2.15	21.3	0.04	0.05	1.60	1.65	0.05	0.28	0.33	5,804
% Reduced	—	—	—	—	—	—	—	—	—	—	2%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.1	9.20	105	0.24	0.16	8.76	8.92	0.15	1.56	1.71	25,270
Area	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	24.8	12.1	130	0.25	0.33	8.76	9.10	0.33	1.56	1.89	36,809
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.9	10.1	97.4	0.23	0.16	8.76	8.92	0.15	1.56	1.71	24,173
Area	6.96	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505

Total	20.9	12.8	99.9	0.24	0.30	8.76	9.06	0.29	1.56	1.85	35,617
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.8	10.1	99.8	0.24	0.16	8.76	8.92	0.15	1.56	1.71	24,486
Area	9.53	0.13	15.6	< 0.005	0.02	—	0.02	0.03	—	0.03	64.4
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	984
Waste	—	—	—	—	—	—	—	—	—	—	677
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	—	0.08	0.08	—	0.08	277
Total	22.9	11.8	117	0.24	0.26	8.76	9.02	0.25	1.56	1.81	35,766
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.34	1.85	18.2	0.04	0.03	1.60	1.63	0.03	0.28	0.31	4,054
Area	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,534
Water	—	—	—	—	—	—	—	—	—	—	163
Waste	—	—	—	—	—	—	—	—	—	—	112
Refrig.	—	—	—	—	—	—	—	—	—	—	2.19
Stationary	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Total	4.18	2.15	21.3	0.04	0.05	1.60	1.65	0.05	0.28	0.33	5,921

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.1	9.20	105	0.24	0.16	8.76	8.92	0.15	1.56	1.71	25,270
Area	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	787
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	24.8	12.1	130	0.25	0.33	8.76	9.10	0.33	1.56	1.89	36,098
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.9	10.1	97.4	0.23	0.16	8.76	8.92	0.15	1.56	1.71	24,173
Area	6.96	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	787
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	20.9	12.8	99.9	0.24	0.30	8.76	9.06	0.29	1.56	1.85	34,906
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.8	10.1	99.8	0.24	0.16	8.76	8.92	0.15	1.56	1.71	24,486
Area	9.53	0.13	15.6	< 0.005	0.02	—	0.02	0.03	—	0.03	64.4
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	9,265
Water	—	—	—	—	—	—	—	—	—	—	787
Waste	—	—	—	—	—	—	—	—	—	—	162
Refrig.	—	—	—	—	—	—	—	—	—	—	13.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	—	0.08	0.08	—	0.08	277
Total	22.9	11.8	117	0.24	0.26	8.76	9.02	0.25	1.56	1.81	35,055
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.34	1.85	18.2	0.04	0.03	1.60	1.63	0.03	0.28	0.31	4,054
Area	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,534
Water	—	—	—	—	—	—	—	—	—	—	130
Waste	—	—	—	—	—	—	—	—	—	—	26.9
Refrig.	—	—	—	—	—	—	—	—	—	—	2.19
Stationary	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Total	4.18	2.15	21.3	0.04	0.05	1.60	1.65	0.05	0.28	0.33	5,804

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	1,302
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	32.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	111
Total	—	—	—	—	—	—	—	—	—	—	1,534

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	7,861
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	536
Strip Mall	—	—	—	—	—	—	—	—	—	—	199
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	669
Total	—	—	—	—	—	—	—	—	—	—	9,265
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	1,302
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	32.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	111

Total	—	—	—	—	—	—	—	—	—	—	1,534
-------	---	---	---	---	---	---	---	---	---	---	-------

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.2. 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	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.74	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Total	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Total	6.96	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Total	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7

4.3.1. 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	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.74	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Total	10.7	0.19	22.8	< 0.005	0.03	—	0.03	0.04	—	0.04	94.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.23	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.74	—	—	—	—	—	—	—	—	—	—

Total	6.96	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.47	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7
Total	1.74	0.02	2.85	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	10.7

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	936
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	41.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.51
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	984
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	936

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	41.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.51
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	984
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	155
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	6.79
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.08
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	32.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.21

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	787
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	749
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	32.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.21
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	787
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	124
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	5.43
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.86
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	130

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	487
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	180
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	677
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	487
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	180
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	677
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	80.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.70

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	112

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	43.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	43.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.47
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	162

Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	19.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	7.13
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.41
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	26.9

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.11
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	2.07
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	2.19

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)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.68

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	12.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	13.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	—	—	—	—	—	0.11
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	2.07
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	2.19

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	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8

Total	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
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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	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	—	0.14	0.14	—	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	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	4,092	4,092	4,092	1,493,580	31,462	31,462	31,462	11,483,630

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	4,092	4,092	4,092	1,493,580	31,462	31,462	31,462	11,483,630

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	436,350	145,450	—

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)
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Government Office Building	6,167,092	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	420,857	462	0.0489	0.0069	0.00
Strip Mall	155,966	462	0.0489	0.0069	0.00
Enclosed Parking with Elevator	524,475	462	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)
Government Office Building	6,167,092	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	420,857	462	0.0489	0.0069	0.00
Strip Mall	155,966	462	0.0489	0.0069	0.00
Enclosed Parking with Elevator	524,475	462	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)
Government Office Building	55,167,795	582,020
High Turnover (Sit Down Restaurant)	2,428,270	0.00
Strip Mall	385,177	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	44,134,236	465,616

High Turnover (Sit Down Restaurant)	1,942,616	0.00
Strip Mall	308,142	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	258	0.00
High Turnover (Sit Down Restaurant)	95.2	0.00
Strip Mall	5.46	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	62.0	0.00
High Turnover (Sit Down Restaurant)	22.8	0.00
Strip Mall	1.31	0.00
Enclosed Parking with Elevator	0.00	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
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

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
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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)
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5.17. User Defined

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	9.52	annual days of extreme heat
Extreme Precipitation	6.15	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 $\frac{3}{4}$ 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	51.0
AQ-PM	90.2
AQ-DPM	96.2
Drinking Water	92.5

Lead Risk Housing	31.7
Pesticides	0.00
Toxic Releases	82.6
Traffic	88.3
Effect Indicators	—
CleanUp Sites	100.0
Groundwater	95.2
Haz Waste Facilities/Generators	100.0
Impaired Water Bodies	66.7
Solid Waste	100
Sensitive Population	—
Asthma	87.9
Cardio-vascular	19.4
Low Birth Weights	65.2
Socioeconomic Factor Indicators	—
Education	14.8
Housing	39.7
Linguistic	59.8
Poverty	48.0
Unemployment	14.4

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	65.44334659
Employed	94.00744258

Median HI	73.54035673
Education	—
Bachelor's or higher	93.08353651
High school enrollment	100
Preschool enrollment	84.88387014
Transportation	—
Auto Access	17.51571924
Active commuting	86.28256127
Social	—
2-parent households	77.76209419
Voting	16.91261388
Neighborhood	—
Alcohol availability	18.38829719
Park access	81.35506224
Retail density	67.9455922
Supermarket access	81.7400231
Tree canopy	35.96817657
Housing	—
Homeownership	21.429488
Housing habitability	4.18324137
Low-inc homeowner severe housing cost burden	22.61003465
Low-inc renter severe housing cost burden	67.90709611
Uncrowded housing	11.86962659
Health Outcomes	—
Insured adults	58.10342615
Arthritis	98.1
Asthma ER Admissions	10.8

High Blood Pressure	93.7
Cancer (excluding skin)	91.6
Asthma	95.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	97.2
Diagnosed Diabetes	95.0
Life Expectancy at Birth	80.7
Cognitively Disabled	41.3
Physically Disabled	96.5
Heart Attack ER Admissions	79.8
Mental Health Not Good	80.9
Chronic Kidney Disease	97.1
Obesity	86.4
Pedestrian Injuries	99.9
Physical Health Not Good	93.2
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	71.8
No Leisure Time for Physical Activity	84.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	88.9
English Speaking	29.3
Foreign-born	58.8

Outdoor Workers	87.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	91.0
Traffic Access	87.4
Other Indices	—
Hardship	14.3
Other Decision Support	—
2016 Voting	21.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	73.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2026
Land Use	CalEEMod guidance modified total project acreage to Project specific acreage and include sf of landscaped (Table 30 SCEA).
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	Constrained site with reduced speeds and paved areas would be utilized for haul activities.
Construction: Electricity	Carbon Intensities for 2024, 2025, and 2026
Operations: Energy Use	All Electric Building