

Appendix B

Air Quality and Greenhouse Gas Emissions

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

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODOLOGY

6136 Manchester Project

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6136 Manchester Project

Air Quality and Greenhouse Gas Emissions Methodology

1. Introduction

Eyestone Environmental has been retained to conduct a comprehensive greenhouse gas (GHG) and criteria air pollutant emissions assessment for the 6136 Manchester Project (the “Project”). Emissions during both construction and operation of the Project were quantified. This assessment describes the methodology used to estimate the GHG and air pollutant emissions from existing and Project conditions and describes the methodology used to quantify GHG and air pollutant emission reductions from project design features and mitigation measures.

2. Air Pollutant and Greenhouse Gas Emissions Methodology

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

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

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

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

a. Emission Inventories

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

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

² See www.caleemod.com.

(1) Construction

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

(a) Emissions from Construction Equipment

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

Construction Off-Road Equipment:

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

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 61 percent.

(b) Emissions from On-Road Trips

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

Construction On-Road Equipment:

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

Where: VMT = vehicle miles traveled (miles)

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

Evaporative emissions, starting and idling emissions in CalEEMod were calculated by multiplying the number of trips times the respective emission factor for each pollutant. Off-road equipment would meet Tier 4 off-road emissions standards and the emission reduction was calculated within CalEEMod.

(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:

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

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:

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

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.

(2) Operation

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

(3) Area Source Emissions

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

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

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

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 sfday]

i = Summation index

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

(4) Energy Emissions (Electricity and Natural Gas)

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

Energy demand emissions were calculated using the CalEEMod emissions inventory model. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. CalEEMod calculates energy use from systems covered by Title 24 Building Energy Efficiency Standards (e.g., heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

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

(a) Electricity

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

Emissions associated with electricity demand are based on the size of the residential, commercial and retail land uses, the electrical demand factors for the land uses, the emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual electricity GHG emissions in units of MTCO_{2e} are calculated as follows:

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

Electricity:

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

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 [CO_2 = 1, CH_4 = 21, N_2O = 310]

2,204.62 = Conversion factor [pounds/MT]

i = Summation index

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

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. Intensity factors for GHGs due to electrical generation to serve the electrical demands of the existing condition were obtained from the LADWP 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 Year 2027 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 Gibson Transportation Consulting had calculated Project VMT which was entered into CalEEMod in calculating Project mobile source emissions.

Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2014.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

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

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

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

⁶ *Transportation Assessment for 6136 Manchester Avenue Residential Project. Gibson Transportation Consulting, July 2022*

Use Development (MXD) model to calculate trip reductions for multi-use developments.⁷ The LADOT VMT Calculator incorporates the USEPA MXD model and accounts for project features such as increased density and proximity to transit, which would reduce VMT and associated fuel usage in comparison to free-standing sites.

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

(6) Stationary Source (Emergency Generator Emissions)

Emissions of GHGs associated with use of emergency generators were calculated using CalEEMod, in which emission factors are based on Table 3.4-1 (Gaseous Emission Factors for Large Stationary Diesel Engines) from EPA's AP-42: Compilation of Air Pollutant Emission Factors. The emissions are based on the horsepower rating of the diesel generator and the number of hours operated per year for testing purposes. Annual emergency generator GHG emissions in units of MTCO_{2e} were calculated as follows:

Emergency Generator:

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

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 December 16, 2019.

bins. A portion of the MSW is diverted to waste recycling and reclamation facilities. Waste that is not diverted is usually sent to local landfills for disposal. MSW that is disposed in landfills results in GHG emissions of 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 MTCO₂e 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 February 21, 2019.

(8) Water Usage and Wastewater Generation Emissions

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

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

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

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

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.

b. Post-2030 Analysis

Recent studies show that the State's existing and proposed regulatory framework will put the State on a pathway to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050 if additional appropriate reduction measures are adopted.⁹ Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050.

Subsequent to the findings of these studies, SB 32 was passed on September 8, 2016, which would require the State board to ensure that Statewide GHG emissions are reduced to 40 percent below the 1990 level by 2030. The new plan outlined in SB 32 involves increasing renewable energy use, imposing tighter limits on the carbon content of gasoline and diesel fuel, putting more electric cars on the road, improving energy efficiency, and curbing emissions from key industries. An evaluation was provided to determine whether the Project's design features advanced these goals by reducing VMT, increasing the use of electric vehicles, improving energy efficiency and reducing water usage.

Further, an evaluation of the Project's consistency with SCAG's RTP/SCS was provided to demonstrate that the Project will be consistent with post-2020 GHG reduction goals. The 2016–2040 RTP/SCS would result in an estimated 8-percent decrease in per capita GHG emissions by 2020, 18-percent decrease in per capita GHG emissions from passenger vehicles by 2035, and 21-percent decrease in per capita GHG emissions from passenger vehicles by 2040. In March 2018, CARB adopted updated targets requiring a 19-percent decrease in VMT for the SCAG region by 2035. As the CARB targets were adopted after the 2016–2040 RTP/SCS, it is expected that the updated targets will be incorporated into the next RTP/SCS. The 2016–2040 RTP/SCS and/or the next RTP/SCS are expected to fulfill and exceed SB 375 compliance with respect to meeting the State's GHG emission reduction goals.

⁹ *Energy and Environmental Economics (E3). "Summary of the California State Agencies' PATHWAYS Project: Long-term Greenhouse Gas Reduction Scenarios" (April 2015); Greenblatt, Jeffrey, Energy Policy, "Modeling California Impacts on Greenhouse Gas Emissions" (Vol. 78, pp. 158–172). The California Air Resources Board, California Energy Commission, California Public Utilities Commission, and the California Independent System Operator engaged E3 to evaluate the feasibility and cost of a range of potential 2030 targets along the way to the state's goal of reducing GHG emissions to 80 percent below 1990 levels by 2050. With input from the agencies, E3 developed scenarios that explore the potential pace at which emission reductions can be achieved, as well as the mix of technologies and practices deployed. E3 conducted the analysis using its California PATHWAYS model. Enhanced specifically for this study, the model encompasses the entire California economy with detailed representations of the buildings, industry, transportation and electricity sectors.*

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Appendix B-2-Air Quality Worksheets and Modeling Output Files

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Air Quality Emissions Summary Winter

AQ SUMMARY OF EMISSIONS WINTER							
Construction Emissions (Unmitigated)							
Regional (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
2025	3	58	51	<1	10	3	
2026	3	22	33	<1	3	1	
2027	33	18	26	<1	3	1	
MAX	33	58	51	<1	10	3	
Threshold	75	100	550	150	150	55	
Difference	(42)	(42)	(499)	(150)	(140)	(52)	
Impact	No	No	No	No	No	No	
Localized (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
2025		26	36		1	<1	
2026		20	28		<1	<1	
2027		17	20		<1	<1	
MAX		26	36		1	<1	
Threshold		113	1067		9	5	
Difference		(87)	(1,032)		(7)	(4)	
Impact		No	No		No	No	

Operation Emissions (Without Project Design Features)

Existing Regional Emissions (Existing Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	<1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	5	5	41	<1	3	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	6	5	42	<1	3	<1	
Existing Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	<1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	4	3	30	<1	3	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	5	3	30	<1	3	<1	
Project Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	10	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	10	7	70	<1	7	1	
Emergency Generator	<1	<1	3	<1	<1	<1	
Total	20	8	73	<1	7	1	
Incremental Regional Emissions (Project Less Existing)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	9	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	6	4	40	<1	4	<1	
Emergency Generator	<1	<1	3	<1	<1	<1	
Total	16	5	42	<1	4	<1	
Threshold	55	55	550	150	150	55	
Difference	(39)	(50)	(508)	(150)	(146)	(54)	
Impact	No	No	No	No	No	No	
Project Localized (Buildout Year)							
Onsite Total		<1	2		<1	<1	
Threshold		113	1067		2	1	
Difference		(113)	(1065)		(2)	(1)	
Impact		No	No		No	No	

6136 Manchester
Air Quality Emissions Summary Summer

AQ SUMMARY OF EMISSIONS SUMMER							
Construction Emissions (Unmitigated)							
Regional (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
2025	3	57	52	<1	10	3	
2026	2	19	27	<1	3	1	
2027	32	10	11	<1	1	<1	
MAX	32	57	52	<1	10	3	
Threshold	75	100	550	150	150	55	
Difference	(43)	(43)	(498)	(150)	(140)	(52)	
Impact	No	No	No	No	No	No	
Localized (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
2025		26	35		1	<1	
2026		17	20		<1	<1	
2027		9	10		<1	<1	
MAX		26	35		1	<1	
Threshold		113	1067		9	5	
Difference		(87)	(1,032)		(7)	(4)	
Impact		No	No		No	No	

Operation Emissions (Without Project Design Features)

Existing Regional Emissions (Existing Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	<1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	5	4	45	<1	3	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	6	5	46	<1	3	<1	
Existing Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	<1	<1	<1	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	4	3	33	<1	3	<1	
Emergency Generator	<1	<1	<1	<1	<1	<1	
Total	5	3	34	<1	3	<1	
Project Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	14	<1	36	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	10	7	75	<1	7	1	
Emergency Generator	<1	<1	3	<1	<1	<1	
Total	24	8	114	<1	7	1	
Incremental Regional Emissions (Project Less Existing)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	
Area	13	<1	35	<1	<1	<1	
Energy	<1	<1	<1	<1	<1	<1	
Mobile	6	4	43	<1	4	<1	
Emergency Generator	<1	<1	3	<1	<1	<1	
Total	19	5	80	<1	4	<1	
Threshold	55	55	550	150	150	55	
Difference	(36)	(50)	(470)	(150)	(146)	(54)	
Impact	No	No	No	No	No	No	
Project Localized (Buildout Year)							
Onsite Total		1	37		<1	<1	
Threshold		113	1067		2	1	
Difference		(113)	(1030)		(2)	(1)	
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
3	Los Angeles County	49		50	44	52

SRA	City	Design Value	Max Hourly, ppb			
		2006-2008	2017	2018	2019	2020
3	Los Angeles County	120		57	64	60

Threshold (ppb) Allowable Increase (ppb)
100 51

Threshold (ppb) Allowable Increase (ppb)
180 60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	85%
---	------------

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

LST Threshold (SRA 3, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)
1	91	78	664	5	3	1	1
2	131	112	967	8	5	2	1
5	197	168	1796	15	8	4	2
2.4	133	113	1067	9	5	2	1

<----Interpolated Value

6136 Manchester

Air Quality and Noise Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls	Total Hauls	Max Daily Deliveries
Overall Duration	2/1/2025	7/31/2027	30	780				
Demolition	2/1/2025	2/28/2025	1	20	25	20	320	-----
Grading/Excavation	3/1/2025	5/31/2025	3	65	75	125	4,953	5
Building Foundation	6/1/2025	1/29/2026	8	174	75			20
Building Construction	1/30/2026	3/31/2027	14	304	100	-----	-----	20
Paving/Landscape	4/1/2027	4/30/2027	1	22	20	-----	-----	5
Architectural Coating	1/1/2027	4/30/2027	4	86				
Site Acreage								
		2.42						
Demolition Quantities								
Building Square Footage (SF)		21,910						
Parking (SF)		83,366						
Parking (spaces)		118						
Import/Export Quantities during Grading (CY)								
Import		-						
Export		79,244						

Landfill Location	Distance (miles)
Sunshine Canyon	30
Irwindale	37
Corona	67

Equipment						
	Demo	Grading/Excavation	Mat Foundation	Foundation	Building Construction	Paving/Landscape
Air Compressor				1		
Aerial Lift					2	
Bore/Drill Rig		2				
Cement and Mortar Mixers		2		2		
Concrete/Industrial Saws	1					
Cranes (Tower)					1	
Cranes (Mobile)		2		2	2	1
Crawler Tractors						
Crushing/Proc. Equipment	1					
Excavators	1	2		2		
Forklifts				2	4	
Generator Sets		1				
Graders		1				
Off-Highway Tractors						
Water Truck	1	1				
Pavers						
Paving Equipment						4
Pumps		1		2	1	
Plate Compactors						
Rollers						
Rough Terrain Forklifts		1		2		
Rubber Tired Dozers						
Rubber Tired Loaders	1	1				
Scrapers						
Signal Boards				2	2	2
Skid Steer Loaders						
Surfacing Equipment						1
Tractors/Loaders/Backhoes		2		2	2	1
Trenchers				1		
Welders					2	
Other ()						
Total Pieces	5	16	0	17	14	9

Construction (Sq Ft)		
Residential	Non-Residential	Parking (Spaces)
320,264	368,191	566

6136 Manchester - Existing Baseline (2022) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	6136 Manchester - Existing Baseline (2022)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.6
Location	6136 Manchester Ave, Los Angeles, CA 90045, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4577
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Automobile Care Center	19.6	1000sqft	0.45	19,650	5,000	0.00	—	—
Fast Food Restaurant with Drive Thru	2.17	1000sqft	0.05	2,165	0.00	0.00	—	—

Parking Lot	118	Space	1.06	0.00	0.00	0.00	—	—
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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.	6.03	4.55	45.7	0.09	0.08	2.89	2.97	0.08	0.51	0.59	10,067
Mit.	6.03	4.55	45.7	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,923
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.78	4.95	41.5	0.08	0.08	2.89	2.97	0.08	0.51	0.59	9,649
Mit.	5.78	4.95	41.5	0.08	0.08	2.89	2.97	0.08	0.51	0.59	9,505
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.85	5.01	43.2	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,771
Mit.	5.85	5.01	43.2	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,627
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.07	0.91	7.88	0.02	0.02	0.53	0.54	0.01	0.09	0.11	1,618

Mit.	1.07	0.91	7.88	0.02	0.02	0.53	0.54	0.01	0.09	0.11	1,594
% Reduced	—	—	—	—	—	—	—	—	—	—	1%

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	5.33	4.30	44.6	0.09	0.06	2.89	2.95	0.06	0.51	0.57	9,084
Area	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741
Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	6.03	4.55	45.7	0.09	0.08	2.89	2.97	0.08	0.51	0.59	10,067
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.23	4.71	41.3	0.08	0.06	2.89	2.95	0.06	0.51	0.57	8,669
Area	0.53	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741
Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	5.78	4.95	41.5	0.08	0.08	2.89	2.97	0.08	0.51	0.59	9,649
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.20	4.76	42.3	0.08	0.06	2.89	2.95	0.06	0.51	0.57	8,789
Area	0.64	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.75
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741

Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	5.85	5.01	43.2	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,771
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.95	0.87	7.72	0.02	0.01	0.53	0.54	0.01	0.09	0.10	1,455
Area	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46
Energy	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	123
Water	—	—	—	—	—	—	—	—	—	—	7.74
Waste	—	—	—	—	—	—	—	—	—	—	31.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.57
Total	1.07	0.91	7.88	0.02	0.02	0.53	0.54	0.01	0.09	0.11	1,618

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	5.33	4.30	44.6	0.09	0.06	2.89	2.95	0.06	0.51	0.57	9,084
Area	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741
Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	6.03	4.55	45.7	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,923
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.23	4.71	41.3	0.08	0.06	2.89	2.95	0.06	0.51	0.57	8,669

Area	0.53	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741
Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	5.78	4.95	41.5	0.08	0.08	2.89	2.97	0.08	0.51	0.59	9,505
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.20	4.76	42.3	0.08	0.06	2.89	2.95	0.06	0.51	0.57	8,789
Area	0.64	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.75
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	741
Water	—	—	—	—	—	—	—	—	—	—	46.7
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	5.85	5.01	43.2	0.09	0.08	2.89	2.97	0.08	0.51	0.59	9,627
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.95	0.87	7.72	0.02	0.01	0.53	0.54	0.01	0.09	0.10	1,455
Area	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46
Energy	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	123
Water	—	—	—	—	—	—	—	—	—	—	7.74
Waste	—	—	—	—	—	—	—	—	—	—	7.37
Refrig.	—	—	—	—	—	—	—	—	—	—	0.57
Total	1.07	0.91	7.88	0.02	0.02	0.53	0.54	0.01	0.09	0.11	1,594

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	285
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	60.8
Total	—	—	—	—	—	—	—	—	—	—	452
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	285
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	60.8
Total	—	—	—	—	—	—	—	—	—	—	452
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	47.2

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	17.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	10.1
Total	—	—	—	—	—	—	—	—	—	—	74.8

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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	285
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	60.8
Total	—	—	—	—	—	—	—	—	—	—	452
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	285
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	60.8
Total	—	—	—	—	—	—	—	—	—	—	452
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	47.2

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	17.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	10.1
Total	—	—	—	—	—	—	—	—	—	—	74.8

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

Fast Food Restaurant with Drive Thru	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.9

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.9

Fast Food Restaurant with Drive Thru	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.9

4.3. Area Emissions by Source

4.3.2. 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	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Total	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.53	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.02	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46
Total	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46

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	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Total	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.53	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46
Total	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.46

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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	34.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	12.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	34.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	12.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.73
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	2.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.74

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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	34.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	12.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	34.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	12.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.73
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	2.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.74

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

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	33.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	11.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	44.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	33.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	11.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	44.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.53
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	1.84
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.37

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	0.57

4.6.2. Mitigated

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

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

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	0.57

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	1,357	1,357	1,357	495,305	10,373	10,373	10,373	3,786,145

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	1,357	1,357	1,357	495,305	10,373	10,373	10,373	3,786,145

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	32,723	10,908	2,776

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Automobile Care Center	190,335	544	0.0489	0.0069	694,362
Fast Food Restaurant with Drive Thru	70,514	544	0.0489	0.0069	205,090
Parking Lot	40,524	544	0.0489	0.0069	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Automobile Care Center	190,335	544	0.0489	0.0069	694,362
Fast Food Restaurant with Drive Thru	70,514	544	0.0489	0.0069	205,090
Parking Lot	40,524	544	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

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

5.12.2. Mitigated

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

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	75.1	0.00

Fast Food Restaurant with Drive Thru	24.9	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	17.7	0.00
Fast Food Restaurant with Drive Thru	5.89	0.00
Parking Lot	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
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

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

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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	5.27	annual days of extreme heat
Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ 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	35.2

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

7.2. Healthy Places Index Scores

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

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

Insured adults	67.86860003
Arthritis	55.6
Asthma ER Admissions	59.4
High Blood Pressure	59.9
Cancer (excluding skin)	32.7
Asthma	65.7
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	64.3
Life Expectancy at Birth	42.2
Cognitively Disabled	29.3
Physically Disabled	54.0
Heart Attack ER Admissions	41.3
Mental Health Not Good	61.1
Chronic Kidney Disease	73.0
Obesity	56.8
Pedestrian Injuries	71.3
Physical Health Not Good	59.3
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	61.3
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0

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

7.3. Overall Health & Equity Scores

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

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	SB 100 for 2022
Operations: Refrigerants	Conservatively removed supermarket refrigerant uses from automobile care center

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4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	6136 Manchester - Existing Buildout (2027)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.6
Location	6136 Manchester Ave, Los Angeles, CA 90045, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4577
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Automobile Care Center	19.6	1000sqft	0.45	19,650	5,000	0.00	—	—
Fast Food Restaurant with Drive Thru	2.17	1000sqft	0.05	2,165	0.00	0.00	—	—

Parking Lot	118	Space	1.06	0.00	0.00	0.00	—	—
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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.	4.80	2.99	33.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,952
Mit.	4.80	2.99	33.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,807
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.59	3.24	30.4	0.08	0.07	2.88	2.95	0.06	0.51	0.57	8,594
Mit.	4.59	3.24	30.4	0.08	0.07	2.88	2.95	0.06	0.51	0.57	8,450
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.67	3.27	31.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,697
Mit.	4.67	3.27	31.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,553
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85	0.60	5.79	0.01	0.01	0.53	0.54	0.01	0.09	0.11	1,440

Mit.	0.85	0.60	5.79	0.01	0.01	0.53	0.54	0.01	0.09	0.11	1,416
% 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	4.10	2.74	32.5	0.08	0.05	2.88	2.93	0.04	0.51	0.56	8,065
Area	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649
Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.80	2.99	33.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,952
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.05	3.00	30.2	0.07	0.05	2.88	2.93	0.04	0.51	0.56	7,712
Area	0.53	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649
Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.59	3.24	30.4	0.08	0.07	2.88	2.95	0.06	0.51	0.57	8,594
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.02	3.02	30.9	0.08	0.05	2.88	2.93	0.04	0.51	0.56	7,812
Area	0.64	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.89
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649

Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	189
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.67	3.27	31.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,697
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.73	0.55	5.64	0.01	0.01	0.53	0.53	0.01	0.09	0.10	1,293
Area	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48
Energy	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	107
Water	—	—	—	—	—	—	—	—	—	—	6.86
Waste	—	—	—	—	—	—	—	—	—	—	31.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.57
Total	0.85	0.60	5.79	0.01	0.01	0.53	0.54	0.01	0.09	0.11	1,440

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	4.10	2.74	32.5	0.08	0.05	2.88	2.93	0.04	0.51	0.56	8,065
Area	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649
Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.80	2.99	33.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.05	3.00	30.2	0.07	0.05	2.88	2.93	0.04	0.51	0.56	7,712

Area	0.53	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649
Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.59	3.24	30.4	0.08	0.07	2.88	2.95	0.06	0.51	0.57	8,450
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.02	3.02	30.9	0.08	0.05	2.88	2.93	0.04	0.51	0.56	7,812
Area	0.64	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.89
Energy	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	649
Water	—	—	—	—	—	—	—	—	—	—	41.4
Waste	—	—	—	—	—	—	—	—	—	—	44.5
Refrig.	—	—	—	—	—	—	—	—	—	—	3.42
Total	4.67	3.27	31.7	0.08	0.07	2.88	2.95	0.06	0.51	0.58	8,553
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.73	0.55	5.64	0.01	0.01	0.53	0.53	0.01	0.09	0.10	1,293
Area	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48
Energy	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	107
Water	—	—	—	—	—	—	—	—	—	—	6.86
Waste	—	—	—	—	—	—	—	—	—	—	7.37
Refrig.	—	—	—	—	—	—	—	—	—	—	0.57
Total	0.85	0.60	5.79	0.01	0.01	0.53	0.54	0.01	0.09	0.11	1,416

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	228
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	84.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	48.4
Total	—	—	—	—	—	—	—	—	—	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	228
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	84.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	48.4
Total	—	—	—	—	—	—	—	—	—	—	360
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	37.7

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	14.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	8.02
Total	—	—	—	—	—	—	—	—	—	—	59.6

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	228
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	84.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	48.4
Total	—	—	—	—	—	—	—	—	—	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	228
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	84.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	48.4
Total	—	—	—	—	—	—	—	—	—	—	360
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	37.7

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	14.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	8.02
Total	—	—	—	—	—	—	—	—	—	—	59.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.9

Fast Food Restaurant with Drive Thru	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.9

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	223
Fast Food Restaurant with Drive Thru	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	289
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.9

Fast Food Restaurant with Drive Thru	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.9

4.3. Area Emissions by Source

4.3.2. 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	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Total	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.53	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.02	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48
Total	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48

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	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Total	0.68	0.01	0.95	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.47	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.53	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48
Total	0.12	< 0.005	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.48

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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	30.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	10.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	30.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	10.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.08
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	1.78
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.86

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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	30.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	10.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	30.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	10.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.08
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	1.78
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.86

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

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	33.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	11.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	44.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	33.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	11.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	44.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	5.53
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	1.84
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.37

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	0.57

4.6.2. Mitigated

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

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

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	3.38
Total	—	—	—	—	—	—	—	—	—	—	3.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	0.01
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	0.57

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
Total all Land Uses	1,357	1,357	1,357	495,305	10,373	10,373	10,373	3,786,145

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	1,357	1,357	1,357	495,305	10,373	10,373	10,373	3,786,145

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	32,723	10,908	2,776

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Automobile Care Center	190,335	433	0.0489	0.0069	694,362
Fast Food Restaurant with Drive Thru	70,514	433	0.0489	0.0069	205,090
Parking Lot	40,524	433	0.0489	0.0069	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Automobile Care Center	190,335	433	0.0489	0.0069	694,362
Fast Food Restaurant with Drive Thru	70,514	433	0.0489	0.0069	205,090
Parking Lot	40,524	433	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

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

5.12.2. Mitigated

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

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	75.1	0.00

Fast Food Restaurant with Drive Thru	24.9	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	17.7	0.00
Fast Food Restaurant with Drive Thru	5.89	0.00
Parking Lot	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
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

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

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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	5.27	annual days of extreme heat
Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ 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	35.2

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

7.2. Healthy Places Index Scores

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

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

Insured adults	67.86860003
Arthritis	55.6
Asthma ER Admissions	59.4
High Blood Pressure	59.9
Cancer (excluding skin)	32.7
Asthma	65.7
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	64.3
Life Expectancy at Birth	42.2
Cognitively Disabled	29.3
Physically Disabled	54.0
Heart Attack ER Admissions	41.3
Mental Health Not Good	61.1
Chronic Kidney Disease	73.0
Obesity	56.8
Pedestrian Injuries	71.3
Physical Health Not Good	59.3
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	61.3
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0

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

7.3. Overall Health & Equity Scores

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

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	SB 100 for 2027
Operations: Refrigerants	Conservatively removed supermarket refrigerant uses from automobile care center

6136 Manchester - Construction Onsite Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

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

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	441	Dwelling Unit	2.40	400,795	11,582	0.00	1,052	—
High Turnover (Sit Down Restaurant)	5.37	1000sqft	0.00	5,373	0.00	0.00	—	—
Strip Mall	10.7	1000sqft	0.00	10,747	0.00	0.00	—	—

Enclosed Parking with Elevator	566	Space	0.00	226,400	0.00	0.00	—	—
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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

2.1. 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.	32.0	26.1	35.4	0.06	1.05	0.32	1.21	0.96	0.03	0.98	6,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	26.2	35.5	0.06	1.05	1.04	1.43	0.96	0.14	0.98	6,751
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.66	14.0	18.9	0.03	0.56	0.21	0.66	0.51	0.02	0.52	3,621
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.40	2.56	3.44	0.01	0.10	0.04	0.12	0.09	< 0.005	0.10	600

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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2025	2.73	26.1	35.4	0.06	1.05	0.16	1.21	0.96	0.02	0.98	6,748
2026	1.83	17.3	20.2	0.04	0.62	0.32	0.93	0.57	0.03	0.60	4,115
2027	32.0	9.17	9.56	0.03	0.35	0.08	0.43	0.32	0.01	0.33	2,840
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2025	2.72	26.2	35.5	0.06	1.05	1.04	1.43	0.96	0.14	0.98	6,751
2026	2.27	20.1	28.2	0.05	0.76	0.32	0.93	0.70	0.03	0.70	5,516
2027	32.7	16.6	20.1	0.04	0.56	0.32	0.87	0.51	0.03	0.54	4,116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2025	1.53	14.0	18.9	0.03	0.56	0.09	0.64	0.51	0.01	0.52	3,621
2026	1.33	12.5	14.9	0.03	0.45	0.21	0.66	0.41	0.02	0.43	3,019
2027	7.66	3.48	4.12	0.01	0.12	0.06	0.18	0.11	0.01	0.12	896
Annual	—	—	—	—	—	—	—	—	—	—	—
2025	0.28	2.56	3.44	0.01	0.10	0.02	0.12	0.09	< 0.005	0.10	600
2026	0.24	2.29	2.71	0.01	0.08	0.04	0.12	0.08	< 0.005	0.08	500
2027	1.40	0.64	0.75	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	148

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)	—	—	—	—	—	—	—	—	—	—	—
2025	2.73	26.1	35.4	0.06	1.05	0.16	1.21	0.96	0.02	0.98	6,748
2026	1.83	17.3	20.2	0.04	0.62	0.32	0.93	0.57	0.03	0.60	4,115
2027	32.0	9.17	9.56	0.03	0.35	0.08	0.43	0.32	0.01	0.33	2,840
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

2025	2.72	26.2	35.5	0.06	1.05	1.04	1.43	0.96	0.14	0.98	6,751
2026	2.27	20.1	28.2	0.05	0.76	0.32	0.93	0.70	0.03	0.70	5,516
2027	32.7	16.6	20.1	0.04	0.56	0.32	0.87	0.51	0.03	0.54	4,116
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2025	1.53	14.0	18.9	0.03	0.56	0.09	0.64	0.51	0.01	0.52	3,621
2026	1.33	12.5	14.9	0.03	0.45	0.21	0.66	0.41	0.02	0.43	3,019
2027	7.66	3.48	4.12	0.01	0.12	0.06	0.18	0.11	0.01	0.12	896
Annual	—	—	—	—	—	—	—	—	—	—	—
2025	0.28	2.56	3.44	0.01	0.10	0.02	0.12	0.09	< 0.005	0.10	600
2026	0.24	2.29	2.71	0.01	0.08	0.04	0.12	0.08	< 0.005	0.08	500
2027	1.40	0.64	0.75	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	148

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	7.81	12.5	0.02	0.39	—	0.39	0.36	—	0.36	1,952
Demolition	—	—	—	—	—	0.72	0.72	—	0.11	0.11	—
Onsite truck	0.01	0.30	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	40.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	107

Demolition	—	—	—	—	—	0.04	0.04	—	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	2.18
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.7
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.36
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
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 (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
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	7.81	12.5	0.02	0.39	—	0.39	0.36	—	0.36	1,952
Demolition	—	—	—	—	—	0.72	0.72	—	0.11	0.11	—
Onsite truck	0.01	0.30	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	40.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	107
Demolition	—	—	—	—	—	0.04	0.04	—	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	2.18
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.7
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.36
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
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 (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	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.08	1.83	1.38	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.07	1.91	1.42	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	238
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.32	6.06	0.01	0.19	—	0.19	0.17	—	0.17	1,160
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—

Onsite truck	0.01	0.33	0.25	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	42.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.79	1.11	< 0.005	0.03	—	0.03	0.03	—	0.03	192
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	6.95
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 (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
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.08	1.83	1.38	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.07	1.91	1.42	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	238
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.32	6.06	0.01	0.19	—	0.19	0.17	—	0.17	1,160
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.33	0.25	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	42.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.79	1.11	< 0.005	0.03	—	0.03	0.03	—	0.03	192
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	6.95

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

3.5. Building 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	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.28	0.21	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.0

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.80	11.8	0.02	0.35	—	0.35	0.32	—	0.32	2,295
Onsite truck	0.01	0.12	0.09	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	15.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	1.61	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	380
Onsite truck	< 0.005	0.02	0.02	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.51
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

3.6. 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
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.28	0.21	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.80	11.8	0.02	0.35	—	0.35	0.32	—	0.32	2,295
Onsite truck	0.01	0.12	0.09	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	15.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	1.61	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	380
Onsite truck	< 0.005	0.02	0.02	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.51
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.7. 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)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	19.9	27.9	0.05	0.76	—	0.76	0.70	—	0.70	5,479
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	1.59	< 0.005	0.04	—	0.04	0.04	—	0.04	311

Onsite truck	< 0.005	0.02	0.01	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.03
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	51.5
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.34
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

3.8. 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)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	19.9	27.9	0.05	0.76	—	0.76	0.70	—	0.70	5,479
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	1.59	< 0.005	0.04	—	0.04	0.04	—	0.04	311
Onsite truck	< 0.005	0.02	0.01	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.03
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	51.5
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.34
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

3.9. 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	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.03	0.40	—	0.40	0.37	—	0.37	2,680
Onsite truck	0.01	0.19	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.05	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	444
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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

3.10. Building Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.03	0.40	—	0.40	0.37	—	0.37	2,680

Onsite truck	0.01	0.19	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.05	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	444
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	16.3	19.9	0.04	0.56	—	0.56	0.51	—	0.51	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.88	3.50	0.01	0.10	—	0.10	0.09	—	0.09	718
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	6.79
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.53	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	119
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.12
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

3.12. Building Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	16.3	19.9	0.04	0.56	—	0.56	0.51	—	0.51	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.88	3.50	0.01	0.10	—	0.10	0.09	—	0.09	718
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	6.79
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.53	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	119
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.12
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

3.13. Paving (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.51	0.03	0.35	—	0.35	0.32	—	0.32	2,828
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	9.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	170
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2

Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10
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

3.14. Paving (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.51	0.03	0.35	—	0.35	0.32	—	0.32	2,828
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	9.58

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	170
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10
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

3.15. Architectural Coating (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.28	—	—	—	—	—	—	—	—	—	—
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	1.33	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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. Architectural Coating (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.28	—	—	—	—	—	—	—	—	—	—

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	1.33	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

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	2/1/2025	2/28/2025	5.00	20.0	—
Grading	Grading	3/1/2025	5/31/2025	5.00	65.0	—
Building Foundation	Building Construction	6/1/2025	1/29/2026	5.00	174	—
Building Construction	Building Construction	1/30/2026	3/31/2027	5.00	304	—
Paving	Paving	4/1/2027	4/30/2027	5.00	22.0	—
Architectural Coating	Architectural Coating	1/1/2027	4/30/2027	5.00	86.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	2.00	8.00	82.0	0.42
Demolition	Excavators	Diesel	Average	1.00	8.00	158	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Grading	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Grading	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Grading	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40

Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Foundation	Excavators	Diesel	Average	2.00	8.00	158	0.38
Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Building Foundation	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Foundation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Building Construction	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30

Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
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5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	2.00	8.00	82.0	0.42
Demolition	Excavators	Diesel	Average	1.00	8.00	158	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Grading	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Grading	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Grading	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Foundation	Excavators	Diesel	Average	2.00	8.00	158	0.38

Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Building Foundation	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Foundation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Building Construction	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—

Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	0.00	30.0	HHDT
Demolition	Onsite truck	20.0	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	30.0	HHDT
Grading	Onsite truck	130	0.00	HHDT
Building Foundation	—	—	—	—
Building Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	0.00	10.2	HHDT,MHDT
Building Foundation	Hauling	0.00	20.0	HHDT
Building Foundation	Onsite truck	20.0	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	5.00	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	20.0	0.05	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	0.00	30.0	HHDT
Demolition	Onsite truck	20.0	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	30.0	HHDT
Grading	Onsite truck	130	0.00	HHDT
Building Foundation	—	—	—	—
Building Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	0.00	10.2	HHDT,MHDT
Building Foundation	Hauling	0.00	20.0	HHDT
Building Foundation	Onsite truck	20.0	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	5.00	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	20.0	0.05	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	811,610	270,537	24,180	8,060	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	21,910	—
Grading	—	79,244	32.5	0.00	—

Paving	0.00	0.00	0.00	0.00	0.00
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5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	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
2025	0.00	477	0.05	0.01
2026	635	477	0.05	0.01
2027	635	477	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	5.27	annual days of extreme heat
Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ 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	35.2
AQ-PM	73.2
AQ-DPM	92.2
Drinking Water	52.7

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

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	48.32542025
Employed	65.58449891

Median HI	65.19953805
Education	—
Bachelor's or higher	76.02977031
High school enrollment	100
Preschool enrollment	6.762479148
Transportation	—
Auto Access	58.83485179
Active commuting	62.4534839
Social	—
2-parent households	70.51199795
Voting	56.08879764
Neighborhood	—
Alcohol availability	24.11138201
Park access	81.35506224
Retail density	62.7229565
Supermarket access	58.60387527
Tree canopy	46.38778391
Housing	—
Homeownership	59.33530091
Housing habitability	44.78378032
Low-inc homeowner severe housing cost burden	7.442576671
Low-inc renter severe housing cost burden	34.42833312
Uncrowded housing	78.31387142
Health Outcomes	—
Insured adults	67.86860003
Arthritis	55.6
Asthma ER Admissions	59.4

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

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

7.3. Overall Health & Equity Scores

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

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	SB 100 for 2027
Land Use	2.4-acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Construction: On-Road Fugitive Dust	Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily.
Construction: Electricity	SB 100 for 2025
Operations: Hearths	No Hearths
Operations: Energy Use	All electric building except restaurant cooking
Operations: Generators + Pumps EF	SCAQMD Rule 1470

6136 Manchester - Project (2027) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	6136 Manchester - Project (2027)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.6
Location	6136 Manchester Ave, Los Angeles, CA 90045, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4577
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	441	Dwelling Unit	2.40	400,795	11,582	0.00	1,052	—
High Turnover (Sit Down Restaurant)	5.37	1000sqft	0.00	5,373	0.00	0.00	—	—
Strip Mall	10.7	1000sqft	0.00	10,747	0.00	0.00	—	—

Enclosed Parking with Elevator	566	Space	0.00	226,400	0.00	0.00	—	—
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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

2.1. 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.	32.1	56.9	51.9	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.1	58.2	51.2	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,089
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.73	20.9	24.1	0.07	0.63	2.13	2.76	0.58	0.55	1.13	9,908
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.41	3.81	4.40	0.01	0.11	0.39	0.50	0.11	0.10	0.21	1,640

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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2025	3.38	56.9	51.9	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,196
2026	2.24	19.1	27.3	0.05	0.63	1.97	2.60	0.57	0.43	1.01	6,795
2027	32.1	9.56	10.9	0.03	0.35	0.43	0.78	0.32	0.09	0.42	3,429
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2025	3.35	58.2	51.2	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,089
2026	2.58	21.9	33.0	0.06	0.77	1.97	2.60	0.70	0.43	1.03	7,793
2027	33.1	18.4	25.8	0.05	0.57	1.97	2.53	0.52	0.43	0.95	6,666
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2025	1.80	20.9	24.1	0.07	0.63	2.13	2.76	0.58	0.55	1.13	9,908
2026	1.61	13.9	19.4	0.04	0.46	1.35	1.81	0.42	0.30	0.72	4,875
2027	7.73	3.83	5.25	0.01	0.12	0.37	0.49	0.11	0.08	0.19	1,384
Annual	—	—	—	—	—	—	—	—	—	—	—
2025	0.33	3.81	4.40	0.01	0.11	0.39	0.50	0.11	0.10	0.21	1,640
2026	0.29	2.54	3.54	0.01	0.08	0.25	0.33	0.08	0.05	0.13	807
2027	1.41	0.70	0.96	< 0.005	0.02	0.07	0.09	0.02	0.01	0.04	229

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)	—	—	—	—	—	—	—	—	—	—	—
2025	3.38	56.9	51.9	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,196
2026	2.24	19.1	27.3	0.05	0.63	1.97	2.60	0.57	0.43	1.01	6,795
2027	32.1	9.56	10.9	0.03	0.35	0.43	0.78	0.32	0.09	0.42	3,429
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

2025	3.35	58.2	51.2	0.24	1.38	8.18	9.57	1.30	2.18	3.47	35,089
2026	2.58	21.9	33.0	0.06	0.77	1.97	2.60	0.70	0.43	1.03	7,793
2027	33.1	18.4	25.8	0.05	0.57	1.97	2.53	0.52	0.43	0.95	6,666
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2025	1.80	20.9	24.1	0.07	0.63	2.13	2.76	0.58	0.55	1.13	9,908
2026	1.61	13.9	19.4	0.04	0.46	1.35	1.81	0.42	0.30	0.72	4,875
2027	7.73	3.83	5.25	0.01	0.12	0.37	0.49	0.11	0.08	0.19	1,384
Annual	—	—	—	—	—	—	—	—	—	—	—
2025	0.33	3.81	4.40	0.01	0.11	0.39	0.50	0.11	0.10	0.21	1,640
2026	0.29	2.54	3.54	0.01	0.08	0.25	0.33	0.08	0.05	0.13	807
2027	1.41	0.70	0.96	< 0.005	0.02	0.07	0.09	0.02	0.01	0.04	229

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.	24.3	7.53	114	0.19	0.16	6.53	6.69	0.16	1.16	1.32	25,232
Mit.	24.3	7.53	114	0.19	0.16	6.53	6.69	0.16	1.16	1.32	24,684
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.2	7.81	72.7	0.18	0.14	6.53	6.67	0.13	1.16	1.29	24,327
Mit.	20.2	7.81	72.7	0.18	0.14	6.53	6.67	0.13	1.16	1.29	23,778
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.4	7.88	97.6	0.18	0.15	6.53	6.68	0.15	1.16	1.31	24,400

Mit.	22.4	7.88	97.6	0.18	0.15	6.53	6.68	0.15	1.16	1.31	23,851
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.08	1.44	17.8	0.03	0.03	1.19	1.22	0.03	0.21	0.24	4,040
Mit.	4.08	1.44	17.8	0.03	0.03	1.19	1.22	0.03	0.21	0.24	3,949
% 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	9.68	6.52	75.3	0.18	0.11	6.53	6.64	0.10	1.16	1.27	18,506
Area	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	24.3	7.53	114	0.19	0.16	6.53	6.69	0.16	1.16	1.32	25,232
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.56	7.13	70.1	0.17	0.11	6.53	6.64	0.10	1.16	1.27	17,711
Area	9.65	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3

Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	20.2	7.81	72.7	0.18	0.14	6.53	6.67	0.13	1.16	1.29	24,327
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.49	7.18	71.7	0.17	0.11	6.53	6.64	0.10	1.16	1.27	17,937
Area	12.3	0.22	24.4	< 0.005	0.02	—	0.02	0.02	—	0.02	75.8
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.54	0.26	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	22.4	7.88	97.6	0.18	0.15	6.53	6.68	0.15	1.16	1.31	24,400
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.73	1.31	13.1	0.03	0.02	1.19	1.21	0.02	0.21	0.23	2,970
Area	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Energy	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	853
Water	—	—	—	—	—	—	—	—	—	—	51.3
Waste	—	—	—	—	—	—	—	—	—	—	106
Refrig.	—	—	—	—	—	—	—	—	—	—	1.88
Stationary	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	4.08	1.44	17.8	0.03	0.03	1.19	1.22	0.03	0.21	0.24	4,040

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.68	6.52	75.3	0.18	0.11	6.53	6.64	0.10	1.16	1.27	18,506

Area	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	24.3	7.53	114	0.19	0.16	6.53	6.69	0.16	1.16	1.32	24,684
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.56	7.13	70.1	0.17	0.11	6.53	6.64	0.10	1.16	1.27	17,711
Area	9.65	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	20.2	7.81	72.7	0.18	0.14	6.53	6.67	0.13	1.16	1.29	23,778
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.49	7.18	71.7	0.17	0.11	6.53	6.64	0.10	1.16	1.27	17,937
Area	12.3	0.22	24.4	< 0.005	0.02	—	0.02	0.02	—	0.02	75.8
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.54	0.26	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	22.4	7.88	97.6	0.18	0.15	6.53	6.68	0.15	1.16	1.31	23,851
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.73	1.31	13.1	0.03	0.02	1.19	1.21	0.02	0.21	0.23	2,970

Area	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Energy	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	853
Water	—	—	—	—	—	—	—	—	—	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	24.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1.88
Stationary	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	4.08	1.44	17.8	0.03	0.03	1.19	1.22	0.03	0.21	0.24	3,949

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	7.81	12.5	0.02	0.39	—	0.39	0.36	—	0.36	1,952
Demolition	—	—	—	—	—	0.72	0.72	—	0.11	0.11	—
Onsite truck	0.01	0.30	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	40.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	107
Demolition	—	—	—	—	—	0.04	0.04	—	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	2.18
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.7
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.36
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.12	1.47	0.00	0.00	0.33	0.33	0.00	0.08	0.08	332
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	5.01	1.79	0.03	0.05	1.11	1.17	0.05	0.30	0.36	4,322
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.5
Vendor	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	0.28	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	237
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.2

3.2. Demolition (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
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.93	7.81	12.5	0.02	0.39	—	0.39	0.36	—	0.36	1,952
Demolition	—	—	—	—	—	0.72	0.72	—	0.11	0.11	—
Onsite truck	0.01	0.30	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	40.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.68	< 0.005	0.02	—	0.02	0.02	—	0.02	107
Demolition	—	—	—	—	—	0.04	0.04	—	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	2.18
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.7
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.36
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.12	1.47	0.00	0.00	0.33	0.33	0.00	0.08	0.08	332
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	5.01	1.79	0.03	0.05	1.11	1.17	0.05	0.30	0.36	4,322
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.5
Vendor	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	0.28	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	237
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.2
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3.3. Grading (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	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.08	1.83	1.38	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.07	1.91	1.42	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	238
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.32	6.06	0.01	0.19	—	0.19	0.17	—	0.17	1,160
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.33	0.25	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	42.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.79	1.11	< 0.005	0.03	—	0.03	0.03	—	0.03	192

Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	6.95
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.32	5.22	0.00	0.00	0.98	0.98	0.00	0.23	0.23	1,052
Vendor	0.01	0.36	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	332
Hauling	0.33	30.1	11.1	0.17	0.33	6.95	7.28	0.33	1.90	2.23	27,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.36	4.42	0.00	0.00	0.98	0.98	0.00	0.23	0.23	995
Vendor	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	331
Hauling	0.31	31.3	11.2	0.17	0.33	6.95	7.28	0.33	1.90	2.23	27,012
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.17	0.17	0.00	0.04	0.04	180
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	59.0
Hauling	0.06	5.64	1.98	0.03	0.06	1.23	1.29	0.06	0.34	0.40	4,814
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	29.8
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.77
Hauling	0.01	1.03	0.36	0.01	0.01	0.22	0.23	0.01	0.06	0.07	797

3.4. Grading (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
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.08	1.83	1.38	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	234
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.64	24.3	34.0	0.06	1.05	—	1.05	0.96	—	0.96	6,514
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—
Onsite truck	0.07	1.91	1.42	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	238
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.32	6.06	0.01	0.19	—	0.19	0.17	—	0.17	1,160
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.33	0.25	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	42.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.79	1.11	< 0.005	0.03	—	0.03	0.03	—	0.03	192
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.06	0.05	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	6.95
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.32	0.32	5.22	0.00	0.00	0.98	0.98	0.00	0.23	0.23	1,052
Vendor	0.01	0.36	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	332
Hauling	0.33	30.1	11.1	0.17	0.33	6.95	7.28	0.33	1.90	2.23	27,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.36	4.42	0.00	0.00	0.98	0.98	0.00	0.23	0.23	995
Vendor	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	331
Hauling	0.31	31.3	11.2	0.17	0.33	6.95	7.28	0.33	1.90	2.23	27,012
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.17	0.17	0.00	0.04	0.04	180
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	59.0
Hauling	0.06	5.64	1.98	0.03	0.06	1.23	1.29	0.06	0.34	0.40	4,814
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	29.8
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.77
Hauling	0.01	1.03	0.36	0.01	0.01	0.22	0.23	0.01	0.06	0.07	797

3.5. 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	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.28	0.21	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.80	11.8	0.02	0.35	—	0.35	0.32	—	0.32	2,295
Onsite truck	0.01	0.12	0.09	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	15.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	1.61	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	380
Onsite truck	< 0.005	0.02	0.02	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.51
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.32	5.22	0.00	0.00	0.98	0.98	0.00	0.23	0.23	1,052
Vendor	0.04	1.44	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,327
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	0.32	0.36	4.42	0.00	0.00	0.98	0.98	0.00	0.23	0.23	995
Vendor	0.04	1.50	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,324
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	0.13	0.16	1.95	0.00	0.00	0.41	0.41	0.00	0.10	0.10	423
Vendor	0.02	0.63	0.30	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	555
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.03	0.36	0.00	0.00	0.07	0.07	0.00	0.02	0.02	70.1
Vendor	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	91.9

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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3.6. 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
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.28	0.21	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.35	21.0	28.1	0.05	0.84	—	0.84	0.77	—	0.77	5,480
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.80	11.8	0.02	0.35	—	0.35	0.32	—	0.32	2,295
Onsite truck	0.01	0.12	0.09	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	15.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	1.61	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	380
Onsite truck	< 0.005	0.02	0.02	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.51
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.32	5.22	0.00	0.00	0.98	0.98	0.00	0.23	0.23	1,052
Vendor	0.04	1.44	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,327
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	0.32	0.36	4.42	0.00	0.00	0.98	0.98	0.00	0.23	0.23	995
Vendor	0.04	1.50	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,324
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	0.13	0.16	1.95	0.00	0.00	0.41	0.41	0.00	0.10	0.10	423
Vendor	0.02	0.63	0.30	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	555
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.03	0.36	0.00	0.00	0.07	0.07	0.00	0.02	0.02	70.1
Vendor	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	91.9
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 (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	19.9	27.9	0.05	0.76	—	0.76	0.70	—	0.70	5,479
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	1.59	< 0.005	0.04	—	0.04	0.04	—	0.04	311
Onsite truck	< 0.005	0.02	0.01	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.03

Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	51.5
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.34
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.33	4.13	0.00	0.00	0.98	0.98	0.00	0.23	0.23	975
Vendor	0.04	1.44	0.68	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	56.2
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	74.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.31
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building 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)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.26	19.9	27.9	0.05	0.76	—	0.76	0.70	—	0.70	5,479
Onsite truck	0.01	0.29	0.22	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	36.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	1.59	< 0.005	0.04	—	0.04	0.04	—	0.04	311
Onsite truck	< 0.005	0.02	0.01	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	2.03
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	51.5
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.34
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.33	4.13	0.00	0.00	0.98	0.98	0.00	0.23	0.23	975
Vendor	0.04	1.44	0.68	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	56.2
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	74.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.31
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.03	0.40	—	0.40	0.37	—	0.37	2,680
Onsite truck	0.01	0.19	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.05	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	444
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.39	6.46	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,375
Vendor	0.04	1.37	0.67	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,305
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	0.37	0.44	5.51	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,300
Vendor	0.04	1.44	0.68	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,302

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.31	3.79	0.00	0.00	0.85	0.85	0.00	0.20	0.20	869
Vendor	0.02	0.95	0.44	0.01	0.01	0.22	0.23	0.01	0.06	0.07	857
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.06	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	144
Vendor	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	142
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 (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.82	17.1	20.0	0.04	0.62	—	0.62	0.57	—	0.57	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.03	0.40	—	0.40	0.37	—	0.37	2,680
Onsite truck	0.01	0.19	0.14	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	2.05	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	444
Onsite truck	< 0.005	0.03	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.27
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.39	6.46	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,375
Vendor	0.04	1.37	0.67	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,305
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	0.37	0.44	5.51	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,300
Vendor	0.04	1.44	0.68	0.01	0.02	0.34	0.36	0.01	0.09	0.10	1,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.31	3.79	0.00	0.00	0.85	0.85	0.00	0.20	0.20	869
Vendor	0.02	0.95	0.44	0.01	0.01	0.22	0.23	0.01	0.06	0.07	857
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.06	0.69	0.00	0.00	0.16	0.16	0.00	0.04	0.04	144
Vendor	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	142
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 (2027) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	16.3	19.9	0.04	0.56	—	0.56	0.51	—	0.51	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.88	3.50	0.01	0.10	—	0.10	0.09	—	0.09	718
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	6.79
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.53	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	119
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.43	5.09	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,275
Vendor	0.04	1.37	0.64	0.01	0.01	0.34	0.35	0.01	0.09	0.10	1,275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.08	0.94	0.00	0.00	0.23	0.23	0.00	0.05	0.05	228
Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	225
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	37.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	37.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	16.3	19.9	0.04	0.56	—	0.56	0.51	—	0.51	4,075
Onsite truck	0.01	0.29	0.22	< 0.005	< 0.005	0.32	0.32	< 0.005	0.03	0.03	39.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.88	3.50	0.01	0.10	—	0.10	0.09	—	0.09	718
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	6.79
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.53	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	119
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.43	5.09	0.00	0.00	1.31	1.31	0.00	0.31	0.31	1,275
Vendor	0.04	1.37	0.64	0.01	0.01	0.34	0.35	0.01	0.09	0.10	1,275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.08	0.94	0.00	0.00	0.23	0.23	0.00	0.05	0.05	228

Vendor	0.01	0.24	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	225
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	37.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	37.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.51	0.03	0.35	—	0.35	0.32	—	0.32	2,828
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	9.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	170
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.20	0.00	0.00	0.26	0.26	0.00	0.06	0.06	270
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	319
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	19.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.51	0.03	0.35	—	0.35	0.32	—	0.32	2,828
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	9.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	170
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.20	0.00	0.00	0.26	0.26	0.00	0.06	0.06	270
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	319
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	19.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.28	—	—	—	—	—	—	—	—	—	—
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	1.33	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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. Architectural Coating (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	30.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.28	—	—	—	—	—	—	—	—	—	—
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	1.33	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	547
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	74.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	25.8
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	165
Total	—	—	—	—	—	—	—	—	—	—	813

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	547
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	74.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	25.8
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	165
Total	—	—	—	—	—	—	—	—	—	—	813

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1
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	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1
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	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1
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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	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.93	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Total	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Total	9.65	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.49	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Total	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5

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	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.93	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Total	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Total	9.65	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.49	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Total	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	270
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	13.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	270
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	13.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	44.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.42
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.16

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	51.3

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	216
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	21.3
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	248
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	216
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	21.3
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	248

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	35.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.53
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.72
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.0

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	496
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	121
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	637
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	496
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	121
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	637
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	82.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	3.52
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	106

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	28.5

Strip Mall	—	—	—	—	—	—	—	—	—	—	5.02
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	28.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.02
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	150
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.71
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.83
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	24.9

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.48
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	1.88

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.48
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	1.88

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

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO ₂	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T	CO ₂ e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—
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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	2/1/2025	2/28/2025	5.00	20.0	—
Grading	Grading	3/1/2025	5/31/2025	5.00	65.0	—
Building Foundation	Building Construction	6/1/2025	1/29/2026	5.00	174	—
Building Construction	Building Construction	1/30/2026	3/31/2027	5.00	304	—
Paving	Paving	4/1/2027	4/30/2027	5.00	22.0	—
Architectural Coating	Architectural Coating	1/1/2027	4/30/2027	5.00	86.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	2.00	8.00	82.0	0.42
Demolition	Excavators	Diesel	Average	1.00	8.00	158	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Grading	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Grading	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Grading	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Foundation	Excavators	Diesel	Average	2.00	8.00	158	0.38
Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Building Foundation	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Foundation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Building Construction	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29

Paving	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Other Construction Equipment	Diesel	Average	2.00	8.00	82.0	0.42
Demolition	Excavators	Diesel	Average	1.00	8.00	158	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
Grading	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Grading	Cranes	Diesel	Average	2.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Grading	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Foundation	Excavators	Diesel	Average	2.00	8.00	158	0.38
Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Building Foundation	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Foundation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Foundation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Building Construction	Aerial Lifts	Diesel	Average	2.00	8.00	46.0	0.31
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Surfacing Equipment	Diesel	Average	1.00	8.00	399	0.30
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	25.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	40.0	30.0	HHDT
Demolition	Onsite truck	20.0	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	75.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT
Grading	Hauling	250	30.0	HHDT
Grading	Onsite truck	130	0.00	HHDT
Building Foundation	—	—	—	—
Building Foundation	Worker	75.0	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	40.0	10.2	HHDT,MHDT
Building Foundation	Hauling	0.00	20.0	HHDT
Building Foundation	Onsite truck	20.0	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	5.00	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

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

5.3.2. Mitigated

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

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

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	811,610	270,537	24,180	8,060	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	21,910	—
Grading	—	79,244	32.5	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
Apartments Mid Rise	—	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
2025	0.00	477	0.05	0.01
2026	635	477	0.05	0.01
2027	635	477	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	3,173	3,173	3,173	1,158,145	23,451	23,451	23,451	8,559,615

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,173	3,173	3,173	1,158,145	23,451	23,451	23,451	8,559,615

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
811609.875	270,537	24,180	8,060	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,764,847	433	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	376,592	433	0.0489	0.0069	754,439
Strip Mall	130,413	433	0.0489	0.0069	0.00
Enclosed Parking with Elevator	835,740	433	0.0489	0.0069	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,764,847	433	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	376,592	433	0.0489	0.0069	754,439
Strip Mall	130,413	433	0.0489	0.0069	0.00
Enclosed Parking with Elevator	835,740	433	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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Apartments Mid Rise	16,437,746	198,529
High Turnover (Sit Down Restaurant)	1,630,887	0.00
Strip Mall	796,057	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	13,150,197	158,823
High Turnover (Sit Down Restaurant)	1,304,709	0.00
Strip Mall	636,846	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)
Apartments Mid Rise	110	0.00
High Turnover (Sit Down Restaurant)	63.9	0.00
Strip Mall	11.3	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	26.0	0.00
High Turnover (Sit Down Restaurant)	15.1	0.00
Strip Mall	2.66	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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

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

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

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
—	—

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	5.27	annual days of extreme heat
Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ 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
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Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.2
AQ-PM	73.2
AQ-DPM	92.2
Drinking Water	52.7
Lead Risk Housing	68.5
Pesticides	0.00
Toxic Releases	84.4
Traffic	72.6
Effect Indicators	—
CleanUp Sites	64.4
Groundwater	75.5
Haz Waste Facilities/Generators	94.9
Impaired Water Bodies	0.00
Solid Waste	9.67
Sensitive Population	—
Asthma	18.8
Cardio-vascular	44.1
Low Birth Weights	23.1
Socioeconomic Factor Indicators	—

Education	2.30
Housing	70.2
Linguistic	22.9
Poverty	31.3
Unemployment	0.33

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	48.32542025
Employed	65.58449891
Median HI	65.19953805
Education	—
Bachelor's or higher	76.02977031
High school enrollment	100
Preschool enrollment	6.762479148
Transportation	—
Auto Access	58.83485179
Active commuting	62.4534839
Social	—
2-parent households	70.51199795
Voting	56.08879764
Neighborhood	—
Alcohol availability	24.11138201
Park access	81.35506224
Retail density	62.7229565

Supermarket access	58.60387527
Tree canopy	46.38778391
Housing	—
Homeownership	59.33530091
Housing habitability	44.78378032
Low-inc homeowner severe housing cost burden	7.442576671
Low-inc renter severe housing cost burden	34.42833312
Uncrowded housing	78.31387142
Health Outcomes	—
Insured adults	67.86860003
Arthritis	55.6
Asthma ER Admissions	59.4
High Blood Pressure	59.9
Cancer (excluding skin)	32.7
Asthma	65.7
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	64.3
Life Expectancy at Birth	42.2
Cognitively Disabled	29.3
Physically Disabled	54.0
Heart Attack ER Admissions	41.3
Mental Health Not Good	61.1
Chronic Kidney Disease	73.0
Obesity	56.8
Pedestrian Injuries	71.3
Physical Health Not Good	59.3

Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	61.3
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0
Elderly	50.9
English Speaking	67.4
Foreign-born	16.2
Outdoor Workers	88.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.3
Traffic Density	52.3
Traffic Access	87.4
Other Indices	—
Hardship	26.2
Other Decision Support	—
2016 Voting	52.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	36.0
Healthy Places Index Score for Project Location (b)	57.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	SB 100 for 2027
Land Use	2.4-acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Construction: On-Road Fugitive Dust	Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily.
Construction: Electricity	SB 100 for 2025
Operations: Hearths	No Hearths
Operations: Energy Use	All electric building except restaurant cooking
Operations: Generators + Pumps EF	SCAQMD Rule 1470

6136 Manchester Ave

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

Direction	Sepulveda Boulevard and Manchester	
	Future with Project	
	AM	PM
Total Intersection Volume	5970	6187
Max Daily Trips ^a	95,673	100,113
Caltrans K Factor (%) ^b	6.24%	6.18%

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

^b Caltrans K Factor obtained from 405 Freeway Monitoring Station, Postmile 28 which is closest to the Project site. Please refer to: <https://dot.ca.gov/programs/traffic-operations/census>

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SCEA

Appendix B-3-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix B-3: Greenhouse Gas Worksheets and Modeling Output Files
 - Appendix B-3.1: GHG Modeling Parameters and Summary of Emissions
 - GHG Emissions Summary
 - GHG Parameters and Summary
 - VMT Calculations
 - Electric Vehicle Charging Calculations
 - SB 100
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 - Project Operations No MXD

6136 Manchester

Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project with no PDFs	Project with PDFs	
Construction Year	CO₂e	CO₂e	
2025	1,640	1,640	
2026	807	807	
2027	229	229	
Total	2,676	2,676	
Atomized over 30 Years	89	89	
Baseline (Baseline Year)^a	CO₂e	CO₂e	
Area	0	0	
Energy (Natural Gas)	123	123	
Mobile	1,455	1,455	
Emergency Generators	0	0	
Solid Waste	7	7	
Water/Wastewater	8	8	
Refrig.	1	1	
Total	1,594	1,594	
Baseline (Buildout Year)^a	CO₂e	CO₂e	
Area	0	0	
Energy (Natural Gas)	107	107	
Mobile	1,293	1,293	
Emergency Generators	0	0	
Solid Waste	7	7	
Water/Wastewater	7	7	
Refrig.	1	1	
Total	1,415	1,415	
Buildout (Buildout Year)^b			
Area	13	13	
Energy (Natural Gas and Electricity) ^b	853	853	
Mobile	3,967	2,970	
Electric Vehicle Charging Credit	(59)	(59)	
Emergency Generators	23	23	
Solid Waste	25	25	
Water/Wastewater	41	41	
Refrig.	2	2	
Construction	89	89	
Total	4,953	3,956	
Project (Buildout less Baseline)			
Area	12	12	
Energy (Natural Gas and Electricity)	746	746	
Mobile	2,674	1,677	
Electric Vehicle Charging Credit	(59)	(59)	
Emergency Generators	23	23	
Solid Waste	18	18	
Water/Wastewater	34	34	
Refrig.	1	1	
Construction	89	89	
Total	3,538	2,541	(997)

^a Existing Uses

^b Please refer to CalEEMod outputs for Future uses

6136 Manchester

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	1,357	3,173	3,173	1	1	1.00
Daily VMT	10,373	23,451	23,451			

Project without TDM (MXD Data)

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	392	-12.0%	345	8.4	3,293	2,898
Home Based Other Production	1,085	-26.1%	802	6.6	7,161	5,293
Non-Home Based Other Production	871	-2.9%	846	7.6	6,620	6,430
Home-Based Work Attraction	80	-28.8%	57	10.1	808	576
Home-Based Other Attraction	1,354	-21.0%	1069	6.9	9,343	7,376
Non-Home Based Other Attraction	487	-3.5%	470	8.4	4,091	3,948
Total	4,269				31,316	26,521

Reduction vs.
Unadjusted MXD (%)

15%

Project with TDM (MXD Data)

	Proposed Project			Project with Mitigation Measures		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	-11.6%	305	2,563	-11.6%	305	2,563
Home Based Other Production	-11.6%	709	4,680	-11.6%	709	4,680
Non-Home Based Other Production	-11.6%	748	5,686	-11.6%	748	5,686
Home-Based Work Attraction	-11.6%	50	509	-11.6%	50	509
Home-Based Other Attraction	-11.6%	945	6,522	-11.6%	945	6,522
Non-Home Based Other Attraction	-11.6%	416	3,491	-11.6%	416	3,491
Total		3,173	23,451		3,173	23,451
Employee VMT			7,243			509
Employee VMT (percent of total)						0.021704831
Residential VMT						7,243
Residential VMT (percent of total)						0.308856765

25%

Source: Gibson Transportation

GHG Emissions Reductions for Resident 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	0.20 MTCO ₂ E/MWh
Fuel Economy of Electric Vehicle ²	0.39 kWh/mile
Electric Vehicle GHG Emissions	76.3 grams/mile
GHG Emissions from Employee Miles Traveled (CalEEMod) ³	301.3 grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	225.0 grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Resident Average Yearly VMT with TDM and PDFs ⁴	2,643,695 miles/year
Percent of Resident Miles Driven in Electric Vehicles due to this Measure	10.0%
Resident VMT that is Displaced by EVs due to this Measure	264,370 miles/year
GHG Resident Reduction from Resident Electric Vehicles	59 MTCO ₂ E/MWh

Energy Usage **102,757**

Notes:

- 1) CO₂ intensity factor reflects a 2027 RPS for LADWP (433 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	34	9%	609
2024	44	-23%	471
2027	52	-15%	398
2030	60	-13%	345
2036	65	-8%	319
2045	100	-35%	0

Build Out Year	Carbon Intensity (lbs/MWh)
2027	433

6136 Manchester - Project (2027) No MXD Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	6136 Manchester - Project (2027) No MXD
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.6
Location	6136 Manchester Ave, Los Angeles, CA 90045, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4577
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	441	Dwelling Unit	2.40	400,795	11,582	0.00	1,052	—
High Turnover (Sit Down Restaurant)	5.37	1000sqft	0.00	5,373	0.00	0.00	—	—
Strip Mall	10.7	1000sqft	0.00	10,747	0.00	0.00	—	—

Enclosed Parking with Elevator	566	Space	0.00	226,400	0.00	0.00	—	—
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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.	27.6	9.74	139	0.25	0.20	8.72	8.92	0.19	1.55	1.75	31,445
Mit.	27.6	9.74	139	0.25	0.20	8.72	8.92	0.19	1.55	1.75	30,896
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.5	10.2	96.4	0.23	0.17	8.72	8.90	0.16	1.55	1.72	30,274
Mit.	23.5	10.2	96.4	0.23	0.17	8.72	8.90	0.16	1.55	1.72	29,725
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.6	10.3	122	0.24	0.19	8.72	8.91	0.18	1.55	1.73	30,422
Mit.	25.6	10.3	122	0.24	0.19	8.72	8.91	0.18	1.55	1.73	29,873
% Reduced	—	—	—	—	—	—	—	—	—	—	2%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.68	1.88	22.2	0.04	0.03	1.59	1.63	0.03	0.28	0.32	5,037
Mit.	4.68	1.88	22.2	0.04	0.03	1.59	1.63	0.03	0.28	0.32	4,946
% 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	13.0	8.73	101	0.24	0.15	8.72	8.87	0.14	1.55	1.69	24,718
Area	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	27.6	9.74	139	0.25	0.20	8.72	8.92	0.19	1.55	1.75	31,445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.8	9.54	93.7	0.23	0.15	8.72	8.87	0.14	1.55	1.69	23,658
Area	9.65	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	23.5	10.2	96.4	0.23	0.17	8.72	8.90	0.16	1.55	1.72	30,274

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.7	9.62	95.9	0.23	0.15	8.72	8.87	0.14	1.55	1.69	23,959
Area	12.3	0.22	24.4	< 0.005	0.02	—	0.02	0.02	—	0.02	75.8
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	310
Waste	—	—	—	—	—	—	—	—	—	—	637
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.54	0.26	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	25.6	10.3	122	0.24	0.19	8.72	8.91	0.18	1.55	1.73	30,422
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.33	1.75	17.5	0.04	0.03	1.59	1.62	0.03	0.28	0.31	3,967
Area	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Energy	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	853
Water	—	—	—	—	—	—	—	—	—	—	51.3
Waste	—	—	—	—	—	—	—	—	—	—	106
Refrig.	—	—	—	—	—	—	—	—	—	—	1.88
Stationary	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	4.68	1.88	22.2	0.04	0.03	1.59	1.63	0.03	0.28	0.32	5,037

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	13.0	8.73	101	0.24	0.15	8.72	8.87	0.14	1.55	1.69	24,718
Area	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152

Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	27.6	9.74	139	0.25	0.20	8.72	8.92	0.19	1.55	1.75	30,896
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.8	9.54	93.7	0.23	0.15	8.72	8.87	0.14	1.55	1.69	23,658
Area	9.65	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	23.5	10.2	96.4	0.23	0.17	8.72	8.90	0.16	1.55	1.72	29,725
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.7	9.62	95.9	0.23	0.15	8.72	8.87	0.14	1.55	1.69	23,959
Area	12.3	0.22	24.4	< 0.005	0.02	—	0.02	0.02	—	0.02	75.8
Energy	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	5,152
Water	—	—	—	—	—	—	—	—	—	—	248
Waste	—	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	—	—	11.3
Stationary	0.54	0.26	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	25.6	10.3	122	0.24	0.19	8.72	8.91	0.18	1.55	1.73	29,873
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.33	1.75	17.5	0.04	0.03	1.59	1.62	0.03	0.28	0.31	3,967
Area	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Energy	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	853

Water	—	—	—	—	—	—	—	—	—	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	24.9
Refrig.	—	—	—	—	—	—	—	—	—	—	1.88
Stationary	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	4.68	1.88	22.2	0.04	0.03	1.59	1.63	0.03	0.28	0.32	4,946

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999

Total	—	—	—	—	—	—	—	—	—	—	4,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	547
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	74.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	25.8
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	165
Total	—	—	—	—	—	—	—	—	—	—	813

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	3,305
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	450
Strip Mall	—	—	—	—	—	—	—	—	—	—	156
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	999
Total	—	—	—	—	—	—	—	—	—	—	4,910
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	547
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	74.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	25.8
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	165
Total	—	—	—	—	—	—	—	—	—	—	813

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1
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	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242
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	0.01	0.20	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	242

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1
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	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.1

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	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.93	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Total	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—

Total	9.65	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.49	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Total	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5

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	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.93	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Total	13.6	0.33	35.6	< 0.005	0.02	—	0.02	0.03	—	0.03	111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.73	—	—	—	—	—	—	—	—	—	—
Total	9.65	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.49	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Total	2.25	0.04	4.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	270
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	13.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	270
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.7

Strip Mall	—	—	—	—	—	—	—	—	—	—	13.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	310
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	44.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.42
Strip Mall	—	—	—	—	—	—	—	—	—	—	2.16
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	51.3

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	216
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	21.3
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	248

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	216
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	21.3
Strip Mall	—	—	—	—	—	—	—	—	—	—	10.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	248
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	35.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.53
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.72
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.0

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)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	496
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	121
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	637
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	496
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	121
Strip Mall	—	—	—	—	—	—	—	—	—	—	21.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	637
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	82.0
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	3.52
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	106

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	28.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.02
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	117
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	28.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.02
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	150
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	19.4
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.71

Strip Mall	—	—	—	—	—	—	—	—	—	—	0.83
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	24.9

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.48

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	1.88

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2.87
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	8.40
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.07
Total	—	—	—	—	—	—	—	—	—	—	11.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.48

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	1.88

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	0.48	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	4,269	4,269	4,269	1,558,185	31,316	31,316	31,316	11,430,340

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	4,269	4,269	4,269	1,558,185	31,316	31,316	31,316	11,430,340

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
811609.875	270,537	24,180	8,060	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,764,847	433	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	376,592	433	0.0489	0.0069	754,439
Strip Mall	130,413	433	0.0489	0.0069	0.00
Enclosed Parking with Elevator	835,740	433	0.0489	0.0069	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,764,847	433	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	376,592	433	0.0489	0.0069	754,439
Strip Mall	130,413	433	0.0489	0.0069	0.00
Enclosed Parking with Elevator	835,740	433	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	16,437,746	198,529
High Turnover (Sit Down Restaurant)	1,630,887	0.00
Strip Mall	796,057	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	13,150,197	158,823
High Turnover (Sit Down Restaurant)	1,304,709	0.00
Strip Mall	636,846	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)
Apartments Mid Rise	110	0.00
High Turnover (Sit Down Restaurant)	63.9	0.00
Strip Mall	11.3	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	26.0	0.00
High Turnover (Sit Down Restaurant)	15.1	0.00
Strip Mall	2.66	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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0

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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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
—	—

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	5.27	annual days of extreme heat

Extreme Precipitation	5.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ 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	35.2
AQ-PM	73.2
AQ-DPM	92.2
Drinking Water	52.7
Lead Risk Housing	68.5
Pesticides	0.00

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

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	48.32542025
Employed	65.58449891
Median HI	65.19953805
Education	—

Bachelor's or higher	76.02977031
High school enrollment	100
Preschool enrollment	6.762479148
Transportation	—
Auto Access	58.83485179
Active commuting	62.4534839
Social	—
2-parent households	70.51199795
Voting	56.08879764
Neighborhood	—
Alcohol availability	24.11138201
Park access	81.35506224
Retail density	62.7229565
Supermarket access	58.60387527
Tree canopy	46.38778391
Housing	—
Homeownership	59.33530091
Housing habitability	44.78378032
Low-inc homeowner severe housing cost burden	7.442576671
Low-inc renter severe housing cost burden	34.42833312
Uncrowded housing	78.31387142
Health Outcomes	—
Insured adults	67.86860003
Arthritis	55.6
Asthma ER Admissions	59.4
High Blood Pressure	59.9
Cancer (excluding skin)	32.7

Asthma	65.7
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	64.3
Life Expectancy at Birth	42.2
Cognitively Disabled	29.3
Physically Disabled	54.0
Heart Attack ER Admissions	41.3
Mental Health Not Good	61.1
Chronic Kidney Disease	73.0
Obesity	56.8
Pedestrian Injuries	71.3
Physical Health Not Good	59.3
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	61.3
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0
Elderly	50.9
English Speaking	67.4
Foreign-born	16.2
Outdoor Workers	88.7
Climate Change Adaptive Capacity	—

Impervious Surface Cover	31.3
Traffic Density	52.3
Traffic Access	87.4
Other Indices	—
Hardship	26.2
Other Decision Support	—
2016 Voting	52.1

7.3. Overall Health & Equity Scores

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Utility Information	SB 100 for 2027
Land Use	2.4-acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Construction: On-Road Fugitive Dust	Given Project site constraints (active construction zone and excavation across the site), it is conservatively assumed that haul trucks would be limited to approximately 15 mph on unpaved roads. Furthermore, much of the hauling activity for demolition would be on paved surfaces, but this analysis assumes 50% unpaved. In addition, all deliveries would be made to staging areas in which the surface would be stabilized. However, it was conservatively assumed that the surface would be water twice daily.
Construction: Electricity	SB 100 for 2025
Operations: Hearths	No Hearths
Operations: Energy Use	All electric building except restaurant cooking
Operations: Generators + Pumps EF	SCAQMD Rule 1470