Appendix B

Air Quality and Greenhouse Gas Emissions

The Bloc Project

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

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODLOGY

The Bloc Project

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1811 Sacramento Project

Air Quality and Greenhouse Gas Emissions Methodology

1. Introduction

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

2. Air Pollutant and Greenhouse Gas Emissions Methodology

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

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

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

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

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

a. Emission Inventories

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

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

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

(1) Construction

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

(a) Emissions from Construction Equipment

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

Construction Off-Road Equipment:

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

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

Pop_i = Population (quantity of same equipment)

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

$AvgHP_i$ = Maximum rated average horsepower (hp)

$Load_i$ = Load Factor (dimensionless)

$Activity_i$ = Hours of operation (hours)

i = Summation index

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

(b) Emissions from On-Road Trips

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

Construction On-Road Equipment:

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

Where: VMT = vehicle miles traveled (miles)

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

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

(c) Emissions from Architectural Coating

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

Construction Architectural Coating Emissions:

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

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

A_{paint} = Building Surface Area (sf)

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

F = fraction of surface area [%].

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

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

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

Where: EF = emission factor (lb/sf)

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

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

(d) Emissions from Paving

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

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

Where: EF = emission factor (lb/acre)

A = area of the parking lot (acre)

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

(2) Operation

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

(3) Area Source Emissions

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

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

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

Where:

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

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

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

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

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

Landscaping Equipment:

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

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

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

i = Summation index

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

(4) Energy Emissions (Electricity and Natural Gas)

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

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

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

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

(a) Electricity

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

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

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

Electricity:

Annual Emissions [$MTCO_2e$] = (Σ_i (Units × D_E × EF_E × GWP)$_i$) ÷ 2,204.62

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

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

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

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

2,204.62 = Conversion factor [pounds/MT]

i = Summation index

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

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. Intensity factors for GHGs due to electrical generation to serve the electrical demands of the existing condition were obtained from the LADWP 2022 Power Content Label, which provides a CO_2 intensity of 567 pounds of CO_2 per MWh for 2020. By 2030, at least 60 percent of electricity shall be obtained from renewable sources. As year-by-year data is currently not available, the CO_2 intensity factor for the Project buildout was determined based on straight line interpolation based on current and future year data points.

(b) Natural Gas

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

Natural Gas:

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

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

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

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

I = Summation index

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

(c) City of Los Angeles All-Electric Ordinance

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

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

(5) Mobile Source Emissions

Mobile-source emissions were calculated using the CalEEMod emissions inventory model. CalEEMod calculates the emissions associated with on-road mobile sources associated with residents, employees, visitors, and delivery vehicles visiting the Project Site based on the number of daily trips generated and vehicle miles traveled (VMT). The

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

Traffic Study prepared by the Fehr and Peers had calculated Project VMT which was entered into CalEEMod in calculating Project mobile source emissions.

Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2017.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

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

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

ADT = Average daily trip rate [trips/day]

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

EF = Pollutant emission factor [pounds per mile]

i = Summation index

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

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

Previously, trip generation for land uses was calculated based on survey data collected by the Institute of Transportation Engineers (ITE). However, these ITE trip generation rates were based on data collected at suburban, single-use, free standing sites, which may not be representative of urban mixed-use environments. Beginning in 2019, the USEPA has sponsored a study to collect travel survey data from mixed-use developments in order provide a more representative trip generation rate for multi-use sites. Results of the USEPA survey indicate that trip generation and VMT are affected by factors such as resident and job density, availability of transit, and accessibility of biking and walking paths. Based on these factors, the USEPA has developed equations known as the EPA Mixed-Use Development (MXD) model to calculate trip reductions for multi-use developments.[6] The LADOT VMT Calculator incorporates the USEPA MXD model and accounts for project

[6] *Environmental Protection Agency, Mixed-Use Trip Generation Model. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed October 10, 2023.*

features such as increased density and proximity to transit, which would reduce VMT and associated fuel usage in comparison to free-standing sites.

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

(6) Stationary Source (Emergency Generator Emissions)

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

Emergency Generator:

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

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

(7) Solid Waste Emissions

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

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

Solid Waste:

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

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

D_{MSW} = Waste disposal rate [tons/1,000 sf/yr]

EF_{MSW} = GHG emission factor [tons/ton waste]

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

1.1023 = Conversion factor [tons/MT]

i = Summation index

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

CalEEMod allows the input of several variables to quantify solid waste emissions. The model requires the amount of waste disposed, which is the product of the waste disposal rate times the land use units. CalEEMod default annaual solid waste disposal rates used. The GHG emission factors, particularly for CH_4, depend on characteristics of the landfill, such as the presence of a landfill gas capture system and subsequent flaring or energy recovery. The default values, as provided in CalEEMod, for landfill gas capture (e.g., no capture, flaring, energy recovery), which are statewide averages, were used in this assessment. The Project includes a 76.4-percent recycling/diversion rate currently achieved within the City.[7]

(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

[7] *City of Los Angeles, Sustainable City pLAn, Waste & Landfills, http://plan.lamayor.org/portfolio/waste-landfills-3rd, accessed October 10, 2023.*

potable water and include: (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, energy is used as the wastewater is treated and reused as reclaimed water.

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

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

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

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

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

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

(9) Refrigerant Emissions

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

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

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AQ SUMMARY OF EMISSIONS WINTER

Construction Emissions (Unmitigated)

Regional (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2027	2	21	31	<1	4	1
	2028	7	70	103	<1	21	6
	2029	5	31	68	<1	13	4
	2030	3	15	41	<1	9	2
	2031	20	14	36	<1	8	2
	MAX	20	70	103	<1	21	6
	Threshold	**75**	**100**	**550**	**150**	**150**	**55**
	Difference	**(55)**	**(30)**	**(447)**	**(150)**	**(129)**	**(49)**
	Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2027		14	23		<1	<1
	2028		36	54		2	1
	2029		21	31		<1	<1
	2030		11	16		<1	<1
	2031		10	16		<1	<1
	MAX		36	54		2	1
	Threshold		78	1090		9	5
	Difference		**(42)**	**(1,036)**		**(7)**	**(4)**
	Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Existing Removed Regional Emissions (Existing Year)		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	Area	<1	<1	<1	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	2	2	18	<1	3	<1
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	3	2	18	<1	3	<1
Existing Removed Regional Emissions (Buidout Year)		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	Area	<1	<1	<1	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	2	1	11	<1	3	<1
	Emergency Generator	<1	<1	<1	<1	<1	<1
	Total	2	1	11	<1	3	<1
Project Regional Emissions (Buildout Year)		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	Area	10	<1	<1	<1	<1	<1
	Energy	<1	<1	<1	<1	<1	<1
	Mobile	3	2	21	<1	5	1
	Emergency Generator	<1	1	1	<1	<1	<1
	Total	14	3	22	<1	5	1
Incremental Regional Emissions (Project Less Existing)		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	Area	10	<1	<1	<1	<1	<1
	Energy	-<1	-<1	-<1	-<1	-<1	-<1
	Mobile	2	<1	9	<1	2	<1
	Emergency Generator	<1	1	1	<1	<1	<1
	Total	12	2	10	<1	2	<1
	Threshold	**55**	**55**	**550**	**150**	**150**	**55**
	Difference	**(43)**	**(53)**	**(540)**	**(150)**	**(148)**	**(54)**
	Impact	No	No	No	No	No	No
Project Localized (Buildout Year)							
	Onsite Total		1	1		<1	<1
	Threshold		**78**	**1090**		**2**	**2**
	Difference		**(77)**	**(1089)**		**(2)**	**(2)**
	Impact		**No**	**No**		**No**	**No**

AQ SUMMARY OF EMISSIONS SUMMER

Construction Emissions (Unmitigated)

Regional (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2027	3	26	43	<1	5	2
	2028	5	46	68	<1	11	4
	2029	5	32	78	<1	14	4
	2030	3	15	46	<1	9	2
	2031	20	14	36	<1	8	2
	MAX	20	46	78	<1	14	4
	Threshold	**75**	**100**	**550**	**150**	**150**	**55**
	Difference	**(55)**	**(54)**	**(472)**	**(150)**	**(136)**	**(51)**
	Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated		ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
	2027		18	29		<1	<1
	2028		26	45		1	1
	2029		21	31		<1	<1
	2030		11	16		<1	<1
	2031		10	16		<1	<1
	MAX		26	45		1	1
	Threshold		78	1090		9	5
	Difference		**(52)**	**(1,045)**		**(8)**	**(4)**
	Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Existing Removed Regional Emissions (Existing Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	2	19	<1	3	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	3	2	20	<1	3	<1
Existing Removed Regional Emissions (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	<1	12	<1	3	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	2	1	13	<1	3	<1
Project Regional Emissions (Buildout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	14	<1	34	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	3	2	22	<1	5	1
Emergency Generator	<1	1	1	<1	<1	<1
Total	17	4	57	<1	5	1
Incremental Regional Emissions (Project Less Existing)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	13	<1	33	<1	<1	<1
Energy	-<1	-<1	-<1	-<1	-<1	-<1
Mobile	2	<1	10	<1	2	<1
Emergency Generator	<1	1	1	<1	<1	<1
Total	15	2	44	<1	2	<1
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(40)**	**(53)**	**(506)**	**(150)**	**(148)**	**(54)**
Impact	No	No	No	No	No	No
Project Localized (Buildout Year)						
Onsite Total		2	34		<1	<1
Threshold		**78**	**1090**		**2**	**2**
Difference		**(77)**	**(1056)**		**(2)**	**(2)**
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 2018-2020	98th percentile, ppb 2017	2018	2019	2020	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	56		57	56	55	100	44

SRA	City	Design Value 2006-2008	Max Hourly, ppb 2017	2018	2019	2020	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	120		70	70	62	180	60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	73%

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

LST Threshold (SRA 1, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)	
1	74	54	680	5	3	2	1	
2	108	79	1048	8	5	2	2	
5	161	118	1861	16	8	4	2	
2.3	**107**	**78**	**1090**	**9**	**5**	**2**	**2**	**<----Interpolated Value**

Consruction Air Quality Analysis Assumptions

The Bloc Residential Tower

3/3/2023

The following information desciribes the quantitly of construction equipment projected during the various stages of construction.

Construction Details	Start Date	End Date	Construct. Duration (months)	Work Days	Daily Employees	Max. Daily Hauls	Max. Daily Deliveries	
Overall Project (start of demo to end of construciton)	**08/09/27**	**08/08/31**	**48**					
Utility Relocation	08/09/27	09/20/27	1	28	30	5		Note: Max Daily Hauls include Deliveries.
Existing Buildings-Selective Demolition	08/23/27	06/21/28	10	204	60	32		Note: Max Daily Hauls include Deliveries.
Existing Buildings and New Tower-Structural Upgrades	06/22/28	08/29/29	14	296	125		80	Note: Deliveries include concrete and other deliveries.
Existing Buildings and New Tower-Interior Buildout	12/13/28	02/21/31	26	542	250		40	Note: Deliveries include concrete and other deliveries.
New Tower-Structural Demolition	04/11/28	08/02/28	4	78	100	32		Note: Max Daily Hauls include Deliveries.
New Tower-Grading and Prep for Foundation	08/03/28	12/15/28	4	91	40	75		Note: Max Daily Hauls include Deliveries.
New Tower-Foundation (Mat Pour)	12/16/28	12/28/28	0	7	40		340	Note: Two mat pour days with no other substantial activity would occur on pour days.
New Tower-Skin	07/09/29	11/05/30	16	330	40		10	
Closeout	05/05/31	08/08/31	3	66	7		7	

Demolition Quantities	**Quantities**	
Existing Building-Demolition (cy)	**26,000**	cy
New Tower-Demolition (cy)	**25,884**	cy
Import / Export Quantities during Grading		
New Tower-Export (cy)	**18,239**	cy

Export	Distance (miles)	
Vulcan Irwandale	27	Demolition Debris and Export

Anticipated Type of Construction Equipment (number of units for each phase. Assumed 8 hours per day, 5 days per week)

		Existing			**New Tower**				
Equipment Type	**Utility Relocation**	**Demolition**	**Structural (Includes Tower)**	**Interior (Includes Tower)**	**Demolition**	**Grading**	**Mat Foundation**	**Skin**	**Closeout**
Air Compressor (Electric)	-	4	2	3	4	-	2	1	-
Aerial Lift (Electric)	-	-	-	3	-	-	-	2	-
Bore/Drill Rig	-	-	-	1	-	2	-	-	-
Cement and Mortar Mixers (Electric)	-	-	-	2	-	-	4	-	1
Concrete/Industrial Saws (Electric)	1	2	-	1	2	-	-	-	1
Cranes (tower) (Electric)	-	-	1	1	-	-	-	1	-
Cranes (mobile)	-	1	1	1	1	1	-	-	-
Crawler Tractors	-	1	-	-	1	2	-	-	-
Excavators (Electric)	1	1	-	-	1	2	-	-	
Forklifts (Electric)	-	-	1	2	-	-	-	2	1
Generator Sets	-	1	2	2	1	1	-	-	-
Jackhammer	1	10	-	-	10	-	-	-	-
Pumps	-	-	2	2	-	-	4	-	-
Plate Compactors (Electric)		-	1	2	-	2	-	-	-
Rollers	1	-	-	-	-	-	-	-	-
Rough Terrain Forklifts	1	-	2	3	-	-	2	-	-
Rubber-tired Loaders	-	3	-	-	3	2	-	-	-
Signal Boards (Electric)	2	2	-	2	2	2	-	-	-
Skid Steer Loaders (Electric)	1	4	-	-	4	1	-	-	1
Sweeper/Scrubber (Propane during Existing)	1	1	-	-	1	1	-	-	-
Tractors/Loaders/Backhoes	1	3	3	1	3	1	-	-	-
Welders (Electric)	-	-	-	2	-	-	-	2	-
Total Pieces	**10**	**33**	**15**	**28**	**33**	**17**	**12**	**8**	**4**

The Bloc - Existing Baseline Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Bloc - Existing Baseline
Operational Year	2022
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.04742181840936, -118.25914539299177
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4045
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

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
Regional Shopping Center	24.4	1000sqft	0.56	24,352	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.05	1.87	20.1	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,357
Mit.	3.05	1.87	20.1	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,320
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.84	2.04	17.6	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,177
Mit.	2.84	2.04	17.6	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,140
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.94	2.07	18.8	0.04	0.03	3.08	3.11	0.03	0.78	0.81	4,231
Mit.	2.94	2.07	18.8	0.04	0.03	3.08	3.11	0.03	0.78	0.81	4,194
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.54	0.38	3.43	0.01	0.01	0.56	0.57	0.01	0.14	0.15	700
Mit.	0.54	0.38	3.43	0.01	0.01	0.56	0.57	0.01	0.14	0.15	694

% 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	2.30	1.83	19.0	0.04	0.03	3.12	3.14	0.02	0.79	0.82	3,853
Area	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0
Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	3.05	1.87	20.1	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,357
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.25	2.01	17.6	0.04	0.03	3.12	3.14	0.02	0.79	0.82	3,677
Area	0.58	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0
Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.84	2.04	17.6	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,177
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.24	2.03	18.0	0.04	0.03	3.08	3.11	0.02	0.78	0.81	3,728
Area	0.70	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.99
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0

Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.94	2.07	18.8	0.04	0.03	3.08	3.11	0.03	0.78	0.81	4,231
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.41	0.37	3.29	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	617
Area	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Energy	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.1
Water	—	—	—	—	—	—	—	—	—	—	5.63
Waste	—	—	—	—	—	—	—	—	—	—	7.98
Refrig.	—	—	—	—	—	—	—	—	—	—	0.02
Total	0.54	0.38	3.43	0.01	0.01	0.56	0.57	0.01	0.14	0.15	700

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.30	1.83	19.0	0.04	0.03	3.12	3.14	0.02	0.79	0.82	3,853
Area	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	3.05	1.87	20.1	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,320
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.25	2.01	17.6	0.04	0.03	3.12	3.14	0.02	0.79	0.82	3,677
Area	0.58	—	—	—	—	—	—	—	—	—	—

Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.84	2.04	17.6	0.04	0.03	3.12	3.15	0.03	0.79	0.82	4,140
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.24	2.03	18.0	0.04	0.03	3.08	3.11	0.02	0.78	0.81	3,728
Area	0.70	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.99
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	417
Water	—	—	—	—	—	—	—	—	—	—	34.0
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.94	2.07	18.8	0.04	0.03	3.08	3.11	0.03	0.78	0.81	4,194
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.41	0.37	3.29	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	617
Area	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Energy	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.1
Water	—	—	—	—	—	—	—	—	—	—	5.63
Waste	—	—	—	—	—	—	—	—	—	—	1.92
Refrig.	—	—	—	—	—	—	—	—	—	—	0.02
Total	0.54	0.38	3.43	0.01	0.01	0.56	0.57	0.01	0.14	0.15	694

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	379
Total	—	—	—	—	—	—	—	—	—	—	379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	379
Total	—	—	—	—	—	—	—	—	—	—	379
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	62.7
Total	—	—	—	—	—	—	—	—	—	—	62.7

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)	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	379
Total	—	—	—	—	—	—	—	—	—	—	379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	379
Total	—	—	—	—	—	—	—	—	—	—	379
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	62.7
Total	—	—	—	—	—	—	—	—	—	—	62.7

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Annual	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38
Total	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38
Total	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Total	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.58	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Total	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Total	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.58	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Total	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	34.0
Total	—	—	—	—	—	—	—	—	—	—	34.0

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	34.0
Total	—	—	—	—	—	—	—	—	—	—	34.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	5.63
Total	—	—	—	—	—	—	—	—	—	—	5.63

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	34.0
Total	—	—	—	—	—	—	—	—	—	—	34.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	34.0
Total	—	—	—	—	—	—	—	—	—	—	34.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	5.63
Total	—	—	—	—	—	—	—	—	—	—	5.63

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	48.2
Total	—	—	—	—	—	—	—	—	—	—	48.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	48.2
Total	—	—	—	—	—	—	—	—	—	—	48.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	7.98
Total	—	—	—	—	—	—	—	—	—	—	7.98

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	11.6

Total	—	—	—	—	—	—	—	—	—	—	11.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	11.6
Total	—	—	—	—	—	—	—	—	—	—	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	1.92
Total	—	—	—	—	—	—	—	—	—	—	1.92

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Annual	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	0.02

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	0.02

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	587	587	587	214,255	4,397	4,397	4,397	1,604,905

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	587	587	587	214,255	4,397	4,397	4,397	1,604,905

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	36,528	12,176	—

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)
Regional Shopping Center	242,462	567	0.0489	0.0069	119,913

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)
Regional Shopping Center	242,462	567	0.0489	0.0069	119,913

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	1,803,814	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	1,803,814	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	25.6	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	6.14	—

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
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	50.5
AQ-PM	90.0
AQ-DPM	99.7
Drinking Water	92.5
Lead Risk Housing	33.3
Pesticides	16.6
Toxic Releases	80.3
Traffic	84.6
Effect Indicators	—
CleanUp Sites	74.3
Groundwater	33.0

Haz Waste Facilities/Generators	94.3
Impaired Water Bodies	66.7
Solid Waste	99.5
Sensitive Population	—
Asthma	60.9
Cardio-vascular	15.7
Low Birth Weights	18.2
Socioeconomic Factor Indicators	—
Education	33.5
Housing	38.1
Linguistic	75.2
Poverty	46.6
Unemployment	32.3

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	38.56024637
Employed	92.87822405
Median HI	46.43911202
Education	—
Bachelor's or higher	89.67021686
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	4.837674836

Active commuting	94.84152445
Social	—
2-parent households	13.10150135
Voting	14.78249711
Neighborhood	—
Alcohol availability	4.516874118
Park access	61.10612088
Retail density	99.61503914
Supermarket access	94.25125112
Tree canopy	9.816501989
Housing	—
Homeownership	5.286795842
Housing habitability	24.39368664
Low-inc homeowner severe housing cost burden	88.19453356
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	30.56589247
Health Outcomes	—
Insured adults	48.91569357
Arthritis	88.1
Asthma ER Admissions	36.6
High Blood Pressure	48.4
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	74.7
Chronic Obstructive Pulmonary Disease	88.0
Diagnosed Diabetes	64.3
Life Expectancy at Birth	92.7

Cognitively Disabled	39.7
Physically Disabled	16.6
Heart Attack ER Admissions	88.8
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	84.3
Pedestrian Injuries	98.2
Physical Health Not Good	77.4
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	69.0
No Leisure Time for Physical Activity	64.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	42.6
English Speaking	26.9
Foreign-born	66.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	3.2
Traffic Density	91.2
Traffic Access	87.4
Other Indices	—
Hardship	37.4

Other Decision Support	—
2016 Voting	20.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
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	LADWP Power Content Label 2022

The Bloc - Existing Buildout Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Bloc - Existing Buildout
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.04742181840936, -118.25914539299177
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4045
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

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
Regional Shopping Center	24.4	1000sqft	0.56	24,352	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.30	1.03	13.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,579
Mit.	2.30	1.03	13.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,542
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.11	1.11	11.4	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,440
Mit.	2.11	1.11	11.4	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,403
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.21	1.12	12.3	0.03	0.02	3.09	3.11	0.02	0.78	0.80	3,481
Mit.	2.21	1.12	12.3	0.03	0.02	3.09	3.11	0.02	0.78	0.80	3,444
% Reduced	—	—	—	—	—	—	—	—	—	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40	0.20	2.25	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	576
Mit.	0.40	0.20	2.25	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	570

% 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	1.54	0.99	12.2	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,239
Area	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1
Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.30	1.03	13.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,579
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.52	1.08	11.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,104
Area	0.58	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1
Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.11	1.11	11.4	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,440
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.08	11.6	0.03	0.02	3.09	3.10	0.02	0.78	0.80	3,142
Area	0.70	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.99
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1

Waste	—	—	—	—	—	—	—	—	—	—	48.2
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.21	1.12	12.3	0.03	0.02	3.09	3.11	0.02	0.78	0.80	3,481
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.20	2.12	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	520
Area	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Energy	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	43.3
Water	—	—	—	—	—	—	—	—	—	—	4.32
Waste	—	—	—	—	—	—	—	—	—	—	7.98
Refrig.	—	—	—	—	—	—	—	—	—	—	0.02
Total	0.40	0.20	2.25	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	576

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	0.99	12.2	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,239
Area	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.30	1.03	13.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,542
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.52	1.08	11.3	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,104
Area	0.58	—	—	—	—	—	—	—	—	—	—

Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.11	1.11	11.4	0.03	0.02	3.12	3.14	0.02	0.79	0.81	3,403
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.08	11.6	0.03	0.02	3.09	3.10	0.02	0.78	0.80	3,142
Area	0.70	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.99
Energy	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	261
Water	—	—	—	—	—	—	—	—	—	—	26.1
Waste	—	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	—	—	0.12
Total	2.21	1.12	12.3	0.03	0.02	3.09	3.11	0.02	0.78	0.80	3,444
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.20	2.12	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	520
Area	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Energy	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	43.3
Water	—	—	—	—	—	—	—	—	—	—	4.32
Waste	—	—	—	—	—	—	—	—	—	—	1.92
Refrig.	—	—	—	—	—	—	—	—	—	—	0.02
Total	0.40	0.20	2.25	0.01	< 0.005	0.56	0.57	< 0.005	0.14	0.15	570

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	223
Total	—	—	—	—	—	—	—	—	—	—	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	223
Total	—	—	—	—	—	—	—	—	—	—	223
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	36.9
Total	—	—	—	—	—	—	—	—	—	—	36.9

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)	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	223
Total	—	—	—	—	—	—	—	—	—	—	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	223
Total	—	—	—	—	—	—	—	—	—	—	223
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	36.9
Total	—	—	—	—	—	—	—	—	—	—	36.9

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Annual	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38
Total	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Total	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38
Total	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.38

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Total	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.58	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Total	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Total	0.76	0.01	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.37
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.52	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Total	0.58	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50
Total	0.13	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.50

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	26.1
Total	—	—	—	—	—	—	—	—	—	—	26.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	26.1
Total	—	—	—	—	—	—	—	—	—	—	26.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	4.32
Total	—	—	—	—	—	—	—	—	—	—	4.32

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	26.1
Total	—	—	—	—	—	—	—	—	—	—	26.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	26.1
Total	—	—	—	—	—	—	—	—	—	—	26.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	4.32
Total	—	—	—	—	—	—	—	—	—	—	4.32

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	48.2
Total	—	—	—	—	—	—	—	—	—	—	48.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	48.2
Total	—	—	—	—	—	—	—	—	—	—	48.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	7.98
Total	—	—	—	—	—	—	—	—	—	—	7.98

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	11.6

Total	—	—	—	—	—	—	—	—	—	—	11.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	11.6
Total	—	—	—	—	—	—	—	—	—	—	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	1.92
Total	—	—	—	—	—	—	—	—	—	—	1.92

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Annual	—	—	—	—	—	—	—	—	—	—	—

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	0.02

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)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.12
Total	—	—	—	—	—	—	—	—	—	—	0.12
Annual	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	0.02

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	587	587	587	214,255	4,397	4,397	4,397	1,604,905

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	587	587	587	214,255	4,397	4,397	4,397	1,604,905

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	36,528	12,176	—

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)
Regional Shopping Center	242,462	332	0.0489	0.0069	119,913

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)
Regional Shopping Center	242,462	332	0.0489	0.0069	119,913

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	1,803,814	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	1,803,814	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	25.6	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	6.14	—

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
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	50.5
AQ-PM	90.0
AQ-DPM	99.7
Drinking Water	92.5
Lead Risk Housing	33.3
Pesticides	16.6
Toxic Releases	80.3
Traffic	84.6
Effect Indicators	—
CleanUp Sites	74.3
Groundwater	33.0

Haz Waste Facilities/Generators	94.3
Impaired Water Bodies	66.7
Solid Waste	99.5
Sensitive Population	—
Asthma	60.9
Cardio-vascular	15.7
Low Birth Weights	18.2
Socioeconomic Factor Indicators	—
Education	33.5
Housing	38.1
Linguistic	75.2
Poverty	46.6
Unemployment	32.3

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	38.56024637
Employed	92.87822405
Median HI	46.43911202
Education	—
Bachelor's or higher	89.67021686
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	4.837674836

Active commuting	94.84152445
Social	—
2-parent households	13.10150135
Voting	14.78249711
Neighborhood	—
Alcohol availability	4.516874118
Park access	61.10612088
Retail density	99.61503914
Supermarket access	94.25125112
Tree canopy	9.816501989
Housing	—
Homeownership	5.286795842
Housing habitability	24.39368664
Low-inc homeowner severe housing cost burden	88.19453356
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	30.56589247
Health Outcomes	—
Insured adults	48.91569357
Arthritis	88.1
Asthma ER Admissions	36.6
High Blood Pressure	48.4
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	74.7
Chronic Obstructive Pulmonary Disease	88.0
Diagnosed Diabetes	64.3
Life Expectancy at Birth	92.7

Cognitively Disabled	39.7
Physically Disabled	16.6
Heart Attack ER Admissions	88.8
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	84.3
Pedestrian Injuries	98.2
Physical Health Not Good	77.4
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	69.0
No Leisure Time for Physical Activity	64.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	42.6
English Speaking	26.9
Foreign-born	66.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	3.2
Traffic Density	91.2
Traffic Access	87.4
Other Indices	—
Hardship	37.4

Other Decision Support	—
2016 Voting	20.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
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	Carbon intensity for 2031

The Bloc - Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Bloc - Project
Construction Start Date	8/1/2027
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.047466497954176, -118.25913605847032
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4045
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments High Rise	466	Dwelling Unit	4.29	447,360	13,600	0.00	1,050	—
Enclosed Parking with Elevator	441	Space	0.00	176,400	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. 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.	17.9	46.0	78.2	0.20	1.25	13.1	13.8	1.17	3.16	3.83	30,148
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.1	69.9	103	0.29	1.55	19.3	20.5	1.45	4.87	6.00	49,310
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.94	26.4	43.9	0.10	0.71	7.68	8.11	0.67	1.85	2.24	16,376
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.45	4.81	8.01	0.02	0.13	1.40	1.48	0.12	0.34	0.41	2,711

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	2.92	26.0	42.7	0.09	0.84	4.28	5.12	0.78	1.07	1.85	14,371
2028	4.56	46.0	68.0	0.20	1.25	9.71	10.9	1.17	2.45	3.56	30,148
2029	5.13	31.6	78.2	0.12	0.72	13.1	13.8	0.67	3.16	3.83	24,787
2030	2.98	15.0	45.8	0.05	0.34	8.44	8.78	0.32	2.01	2.33	13,495
2031	17.9	1.04	1.37	< 0.005	0.03	0.32	0.34	0.03	0.08	0.10	678
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	2.22	21.1	31.2	0.08	0.70	3.25	3.95	0.65	0.82	1.47	11,558
2028	7.11	69.9	103	0.29	1.55	19.3	20.5	1.45	4.87	6.00	49,310
2029	4.81	31.4	67.7	0.11	0.72	11.9	12.6	0.67	2.87	3.53	22,605
2030	2.95	15.4	41.4	0.05	0.34	8.44	8.78	0.32	2.01	2.33	13,095
2031	20.1	14.2	36.4	0.05	0.33	7.22	7.55	0.30	1.72	2.02	11,375
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.62	5.86	8.83	0.02	0.19	0.90	1.09	0.18	0.23	0.40	3,177
2028	2.70	26.4	39.4	0.10	0.71	5.42	6.13	0.67	1.35	2.02	16,376
2029	3.02	18.8	43.9	0.07	0.43	7.68	8.11	0.39	1.85	2.24	14,153
2030	2.07	10.9	30.0	0.04	0.24	5.83	6.07	0.23	1.39	1.62	9,263
2031	7.94	1.64	4.03	0.01	0.04	0.78	0.82	0.04	0.19	0.22	1,291
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.11	1.07	1.61	< 0.005	0.03	0.16	0.20	0.03	0.04	0.07	526
2028	0.49	4.81	7.20	0.02	0.13	0.99	1.12	0.12	0.25	0.37	2,711
2029	0.55	3.43	8.01	0.01	0.08	1.40	1.48	0.07	0.34	0.41	2,343
2030	0.38	1.99	5.48	0.01	0.04	1.06	1.11	0.04	0.25	0.30	1,534
2031	1.45	0.30	0.74	< 0.005	0.01	0.14	0.15	0.01	0.03	0.04	214

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)	—	—	—	—	—	—	—	—	—	—	—
2027	2.92	26.0	42.7	0.09	0.84	4.28	5.12	0.78	1.07	1.85	14,371
2028	4.56	46.0	68.0	0.20	1.25	9.71	10.9	1.17	2.45	3.56	30,148
2029	5.13	31.6	78.2	0.12	0.72	13.1	13.8	0.67	3.16	3.83	24,787
2030	2.98	15.0	45.8	0.05	0.34	8.44	8.78	0.32	2.01	2.33	13,495
2031	17.9	1.04	1.37	< 0.005	0.03	0.32	0.34	0.03	0.08	0.10	678
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	2.22	21.1	31.2	0.08	0.70	3.25	3.95	0.65	0.82	1.47	11,558
2028	7.11	69.9	103	0.29	1.55	19.3	20.5	1.45	4.87	6.00	49,310
2029	4.81	31.4	67.7	0.11	0.72	11.9	12.6	0.67	2.87	3.53	22,605
2030	2.95	15.4	41.4	0.05	0.34	8.44	8.78	0.32	2.01	2.33	13,095
2031	20.1	14.2	36.4	0.05	0.33	7.22	7.55	0.30	1.72	2.02	11,375
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.62	5.86	8.83	0.02	0.19	0.90	1.09	0.18	0.23	0.40	3,177
2028	2.70	26.4	39.4	0.10	0.71	5.42	6.13	0.67	1.35	2.02	16,376
2029	3.02	18.8	43.9	0.07	0.43	7.68	8.11	0.39	1.85	2.24	14,153
2030	2.07	10.9	30.0	0.04	0.24	5.83	6.07	0.23	1.39	1.62	9,263
2031	7.94	1.64	4.03	0.01	0.04	0.78	0.82	0.04	0.19	0.22	1,291
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.11	1.07	1.61	< 0.005	0.03	0.16	0.20	0.03	0.04	0.07	526
2028	0.49	4.81	7.20	0.02	0.13	0.99	1.12	0.12	0.25	0.37	2,711
2029	0.55	3.43	8.01	0.01	0.08	1.40	1.48	0.07	0.34	0.41	2,343
2030	0.38	1.99	5.48	0.01	0.04	1.06	1.11	0.04	0.25	0.30	1,534

2031	1.45	0.30	0.74	< 0.005	0.01	0.14	0.15	0.01	0.03	0.04	214

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.	17.9	4.88	58.6	0.06	0.07	5.36	5.43	0.06	1.36	1.42	10,249
Mit.	17.9	4.88	58.6	0.06	0.07	5.36	5.43	0.06	1.36	1.42	9,822
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	4.73	23.1	0.06	0.04	5.36	5.40	0.04	1.36	1.40	9,915
Mit.	14.4	4.73	23.1	0.06	0.04	5.36	5.40	0.04	1.36	1.40	9,488
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	3.71	45.8	0.06	0.05	5.31	5.36	0.05	1.35	1.39	9,821
Mit.	16.3	3.71	45.8	0.06	0.05	5.31	5.36	0.05	1.35	1.39	9,395
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.98	0.68	8.36	0.01	0.01	0.97	0.98	0.01	0.25	0.25	1,626
Mit.	2.98	0.68	8.36	0.01	0.01	0.97	0.98	0.01	0.25	0.25	1,555
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.07	1.81	21.9	0.05	0.03	5.36	5.39	0.03	1.36	1.39	5,608
Area	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	253
Waste	—	—	—	—	—	—	—	—	—	—	495
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	17.9	4.88	58.6	0.06	0.07	5.36	5.43	0.06	1.36	1.42	10,249
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.05	1.98	20.6	0.05	0.03	5.36	5.39	0.03	1.36	1.39	5,377
Area	10.3	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	253
Waste	—	—	—	—	—	—	—	—	—	—	495
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	14.4	4.73	23.1	0.06	0.04	5.36	5.40	0.04	1.36	1.40	9,915
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.02	1.99	21.0	0.05	0.03	5.31	5.34	0.03	1.35	1.38	5,442
Area	12.8	0.21	23.4	< 0.005	0.02	—	0.02	0.01	—	0.01	70.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	253
Waste	—	—	—	—	—	—	—	—	—	—	495
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.54	1.51	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277

Total	16.3	3.71	45.8	0.06	0.05	5.31	5.36	0.05	1.35	1.39	9,821
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.55	0.36	3.83	0.01	0.01	0.97	0.97	0.01	0.25	0.25	901
Area	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	543
Water	—	—	—	—	—	—	—	—	—	—	41.8
Waste	—	—	—	—	—	—	—	—	—	—	81.9
Refrig.	—	—	—	—	—	—	—	—	—	—	0.53
Stationary	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	2.98	0.68	8.36	0.01	0.01	0.97	0.98	0.01	0.25	0.25	1,626

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	3.07	1.81	21.9	0.05	0.03	5.36	5.39	0.03	1.36	1.39	5,608
Area	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	202
Waste	—	—	—	—	—	—	—	—	—	—	119
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	17.9	4.88	58.6	0.06	0.07	5.36	5.43	0.06	1.36	1.42	9,822
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.05	1.98	20.6	0.05	0.03	5.36	5.39	0.03	1.36	1.39	5,377
Area	10.3	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	202
Waste	—	—	—	—	—	—	—	—	—	—	119
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	14.4	4.73	23.1	0.06	0.04	5.36	5.40	0.04	1.36	1.40	9,488
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.02	1.99	21.0	0.05	0.03	5.31	5.34	0.03	1.35	1.38	5,442
Area	12.8	0.21	23.4	< 0.005	0.02	—	0.02	0.01	—	0.01	70.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	202
Waste	—	—	—	—	—	—	—	—	—	—	119
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.54	1.51	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	16.3	3.71	45.8	0.06	0.05	5.31	5.36	0.05	1.35	1.39	9,395
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.55	0.36	3.83	0.01	0.01	0.97	0.97	0.01	0.25	0.25	901
Area	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	543
Water	—	—	—	—	—	—	—	—	—	—	33.4
Waste	—	—	—	—	—	—	—	—	—	—	19.7
Refrig.	—	—	—	—	—	—	—	—	—	—	0.53
Stationary	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	2.98	0.68	8.36	0.01	0.01	0.97	0.98	0.01	0.25	0.25	1,555

3. Construction Emissions Details

3.1. Existing Buildings-Selective Demolition (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	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	3.55	5.78	0.01	0.16	—	0.16	0.15	—	0.15	1,026
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	170
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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	0.43	0.41	7.21	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,618
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.52	2.47	0.04	0.08	1.60	1.68	0.08	0.44	0.51	6,020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.52	6.11	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,529
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	6.79	2.49	0.04	0.08	1.60	1.68	0.08	0.44	0.51	6,010
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.13	1.65	0.00	0.00	0.40	0.40	0.00	0.09	0.09	398
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.76	0.64	0.01	0.02	0.41	0.43	0.02	0.11	0.13	1,542
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	65.9
Vendor	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	0.32	0.12	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	255

3.2. Existing Buildings-Selective Demolition (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	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	3.55	5.78	0.01	0.16	—	0.16	0.15	—	0.15	1,026
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	170
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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	0.43	0.41	7.21	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,618
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.52	2.47	0.04	0.08	1.60	1.68	0.08	0.44	0.51	6,020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.52	6.11	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,529
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	6.79	2.49	0.04	0.08	1.60	1.68	0.08	0.44	0.51	6,010
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.13	1.65	0.00	0.00	0.40	0.40	0.00	0.09	0.09	398
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.76	0.64	0.01	0.02	0.41	0.43	0.02	0.11	0.13	1,542

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	65.9
Vendor	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	0.32	0.12	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	255

3.3. Existing Buildings-Selective Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	4.36	7.65	0.01	0.19	—	0.19	0.17	—	0.17	1,356
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.80	1.40	< 0.005	0.03	—	0.03	0.03	—	0.03	224

Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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	0.41	0.41	6.77	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,588
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.32	2.40	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,879
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.47	5.76	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,502
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	6.55	2.42	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,870
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.16	2.04	0.00	0.00	0.53	0.53	0.00	0.12	0.12	517
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.25	0.81	0.01	0.03	0.54	0.56	0.03	0.15	0.17	1,988
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.10	0.10	0.00	0.02	0.02	85.5
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	0.41	0.15	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	329

3.4. Existing Buildings-Selective Demolition (2028) - Mitigated

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

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

Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	4.36	7.65	0.01	0.19	—	0.19	0.17	—	0.17	1,356
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.80	1.40	< 0.005	0.03	—	0.03	0.03	—	0.03	224
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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	0.41	0.41	6.77	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,588
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.32	2.40	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,879
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.47	5.76	0.00	0.00	1.57	1.57	0.00	0.37	0.37	1,502
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.07	6.55	2.42	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,870
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.16	2.04	0.00	0.00	0.53	0.53	0.00	0.12	0.12	517
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.25	0.81	0.01	0.03	0.54	0.56	0.03	0.15	0.17	1,988
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.10	0.10	0.00	0.02	0.02	85.5
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	0.41	0.15	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	329

3.5. New Tower-Structural Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	2.75	4.83	0.01	0.12	—	0.12	0.11	—	0.11	856
Demolition	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.50	0.88	< 0.005	0.02	—	0.02	0.02	—	0.02	142
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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	0.68	0.68	11.3	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,647
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.32	2.40	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,879
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.16	2.14	0.00	0.00	0.55	0.55	0.00	0.13	0.13	544
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.42	0.51	0.01	0.02	0.34	0.36	0.02	0.09	0.11	1,255
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	90.0
Vendor	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	0.26	0.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	208

3.6. New Tower-Structural Demolition (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005

Demolition	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	2.75	4.83	0.01	0.12	—	0.12	0.11	—	0.11	856
Demolition	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.50	0.88	< 0.005	0.02	—	0.02	0.02	—	0.02	142
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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	0.68	0.68	11.3	0.00	0.00	2.61	2.61	0.00	0.61	0.61	2,647
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	6.32	2.40	0.04	0.08	1.60	1.68	0.08	0.44	0.51	5,879
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.16	2.14	0.00	0.00	0.55	0.55	0.00	0.13	0.13	544
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.42	0.51	0.01	0.02	0.34	0.36	0.02	0.09	0.11	1,255
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	90.0
Vendor	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	0.26	0.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	208

3.7. Utility Relocation (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	0.46	4.02	6.45	0.01	0.13	—	0.13	0.12	—	0.12	965
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	74.0
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.3
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.21	3.60	0.00	0.00	0.78	0.78	0.00	0.18	0.18	809
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.02	0.39	0.01	0.01	0.25	0.26	0.01	0.07	0.08	941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	59.6
Vendor	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	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	72.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.87
Vendor	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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.9

3.8. Utility Relocation (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.02	6.45	0.01	0.13	—	0.13	0.12	—	0.12	965
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	74.0
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.3
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.21	3.60	0.00	0.00	0.78	0.78	0.00	0.18	0.18	809
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.02	0.39	0.01	0.01	0.25	0.26	0.01	0.07	0.08	941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	59.6
Vendor	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	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	72.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.87
Vendor	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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.9

3.9. New Tower-Grading and Prep for Foundation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.56	5.69	0.01	0.15	—	0.15	0.14	—	0.14	1,007
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	167

Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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	0.27	0.27	4.51	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,059
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	14.8	5.62	0.09	0.18	3.75	3.93	0.18	1.03	1.21	13,779
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.31	3.84	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,002
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.17	15.4	5.66	0.09	0.18	3.75	3.93	0.18	1.03	1.21	13,758
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.00	0.00	0.00	0.26	0.26	0.00	0.06	0.06	254
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	3.88	1.40	0.02	0.04	0.93	0.97	0.04	0.25	0.30	3,432
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	42.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.71	0.26	< 0.005	0.01	0.17	0.18	0.01	0.05	0.05	568

3.10. New Tower-Grading and Prep for Foundation (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.56	5.69	0.01	0.15	—	0.15	0.14	—	0.14	1,007
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	167
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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	0.27	0.27	4.51	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,059
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	14.8	5.62	0.09	0.18	3.75	3.93	0.18	1.03	1.21	13,779
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.31	3.84	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,002
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.17	15.4	5.66	0.09	0.18	3.75	3.93	0.18	1.03	1.21	13,758
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.00	0.00	0.00	0.26	0.26	0.00	0.06	0.06	254
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	3.88	1.40	0.02	0.04	0.93	0.97	0.04	0.25	0.30	3,432
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	42.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.71	0.26	< 0.005	0.01	0.17	0.18	0.01	0.05	0.05	568

3.11. Existing Buildings-Structural Upgrades (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	4.08	5.68	0.01	0.13	—	0.13	0.12	—	0.12	1,117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.75	1.04	< 0.005	0.02	—	0.02	0.02	—	0.02	185
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	0.85	0.85	14.1	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,308
Vendor	0.11	5.03	2.42	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,994
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	0.85	0.97	12.0	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,130
Vendor	0.11	5.24	2.44	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,987
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	0.32	0.36	4.73	0.00	0.00	1.22	1.22	0.00	0.29	0.29	1,201
Vendor	0.04	1.99	0.91	0.01	0.01	0.51	0.53	0.01	0.14	0.16	1,885
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	0.06	0.07	0.86	0.00	0.00	0.22	0.22	0.00	0.05	0.05	199
Vendor	0.01	0.36	0.17	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	312

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. Existing Buildings-Structural Upgrades (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	4.08	5.68	0.01	0.13	—	0.13	0.12	—	0.12	1,117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.75	1.04	< 0.005	0.02	—	0.02	0.02	—	0.02	185
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	0.85	0.85	14.1	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,308
Vendor	0.11	5.03	2.42	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,994
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	0.85	0.97	12.0	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,130
Vendor	0.11	5.24	2.44	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,987
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	0.32	0.36	4.73	0.00	0.00	1.22	1.22	0.00	0.29	0.29	1,201
Vendor	0.04	1.99	0.91	0.01	0.01	0.51	0.53	0.01	0.14	0.16	1,885
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	0.06	0.07	0.86	0.00	0.00	0.22	0.22	0.00	0.05	0.05	199
Vendor	0.01	0.36	0.17	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	312
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. Existing Buildings-Structural Upgrades (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.53	4.95	7.07	0.01	0.16	—	0.16	0.15	—	0.15	1,395
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.90	1.29	< 0.005	0.03	—	0.03	0.03	—	0.03	231
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	0.82	0.74	13.2	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,252
Vendor	0.11	4.78	2.30	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,867
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	0.81	0.86	11.2	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,078
Vendor	0.10	5.00	2.36	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,860
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	0.38	0.40	5.52	0.00	0.00	1.52	1.52	0.00	0.36	0.36	1,474
Vendor	0.05	2.37	1.10	0.02	0.02	0.64	0.66	0.02	0.18	0.19	2,293
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	0.07	0.07	1.01	0.00	0.00	0.28	0.28	0.00	0.07	0.07	244
Vendor	0.01	0.43	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	380
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. Existing Buildings-Structural Upgrades (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	4.95	7.07	0.01	0.16	—	0.16	0.15	—	0.15	1,395
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.90	1.29	< 0.005	0.03	—	0.03	0.03	—	0.03	231
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	0.82	0.74	13.2	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,252
Vendor	0.11	4.78	2.30	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,867
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	0.81	0.86	11.2	0.00	0.00	3.27	3.27	0.00	0.77	0.77	3,078
Vendor	0.10	5.00	2.36	0.04	0.04	1.37	1.40	0.04	0.38	0.41	4,860

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	0.38	0.40	5.52	0.00	0.00	1.52	1.52	0.00	0.36	0.36	1,474
Vendor	0.05	2.37	1.10	0.02	0.02	0.64	0.66	0.02	0.18	0.19	2,293
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	0.07	0.07	1.01	0.00	0.00	0.28	0.28	0.00	0.07	0.07	244
Vendor	0.01	0.43	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	380
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. New Tower-Skin (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	4.22	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,041
Vendor	0.01	0.60	0.29	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	608
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.27	3.57	0.00	0.00	1.05	1.05	0.00	0.25	0.25	985
Vendor	0.01	0.62	0.29	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	608
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	0.09	0.09	1.29	0.00	0.00	0.36	0.36	0.00	0.08	0.08	345
Vendor	< 0.005	0.22	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	209
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	57.0
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.7
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. New Tower-Skin (2029) - Mitigated

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

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

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	4.22	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,041
Vendor	0.01	0.60	0.29	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	608
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.27	3.57	0.00	0.00	1.05	1.05	0.00	0.25	0.25	985
Vendor	0.01	0.62	0.29	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	608
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	0.09	0.09	1.29	0.00	0.00	0.36	0.36	0.00	0.08	0.08	345
Vendor	< 0.005	0.22	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	209

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	57.0
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. New Tower-Skin (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	3.96	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,024
Vendor	0.01	0.57	0.28	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	590
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	0.25	0.24	3.34	0.00	0.00	1.05	1.05	0.00	0.25	0.25	969
Vendor	0.01	0.60	0.28	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	589
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	0.15	0.15	2.13	0.00	0.00	0.63	0.63	0.00	0.15	0.15	595
Vendor	0.01	0.36	0.17	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	356
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.11	0.11	0.00	0.03	0.03	98.5
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	59.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.18. New Tower-Skin (2030) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.20	3.96	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,024
Vendor	0.01	0.57	0.28	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	590
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	0.25	0.24	3.34	0.00	0.00	1.05	1.05	0.00	0.25	0.25	969
Vendor	0.01	0.60	0.28	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	589
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	0.15	0.15	2.13	0.00	0.00	0.63	0.63	0.00	0.15	0.15	595
Vendor	0.01	0.36	0.17	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	356
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.11	0.11	0.00	0.03	0.03	98.5

Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	59.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. New Tower-Foundation (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.59	6.06	0.01	0.14	—	0.14	0.13	—	0.13	1,046
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.31	3.84	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,002
Vendor	0.53	32.3	14.3	0.17	0.31	6.43	6.74	0.31	1.76	2.07	24,303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	19.5
Vendor	0.01	0.62	0.27	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	466
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	3.23
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	77.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.20. New Tower-Foundation (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.59	6.06	0.01	0.14	—	0.14	0.13	—	0.13	1,046
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.31	3.84	0.00	0.00	1.05	1.05	0.00	0.25	0.25	1,002
Vendor	0.53	32.3	14.3	0.17	0.31	6.43	6.74	0.31	1.76	2.07	24,303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	19.5
Vendor	0.01	0.62	0.27	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	466
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	3.23
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	77.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Existing Buildings-Interior Buildout (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	11.1	15.8	0.03	0.35	—	0.35	0.32	—	0.32	3,120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.41	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	19.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.70	1.94	24.0	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,260
Vendor	0.05	2.62	1.22	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,493
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	0.07	0.93	0.00	0.00	0.24	0.24	0.00	0.06	0.06	236
Vendor	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	92.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	39.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Existing Buildings-Interior Buildout (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	11.1	15.8	0.03	0.35	—	0.35	0.32	—	0.32	3,120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.41	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	19.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.70	1.94	24.0	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,260
Vendor	0.05	2.62	1.22	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,493
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	0.07	0.93	0.00	0.00	0.24	0.24	0.00	0.06	0.06	236
Vendor	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	92.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	39.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	15.4

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

3.23. Existing Buildings-Interior Buildout (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	7.73	11.2	0.02	0.24	—	0.24	0.22	—	0.22	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.41	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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	1.64	1.49	26.4	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,504
Vendor	0.06	2.39	1.15	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,434
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.62	1.71	22.3	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,156
Vendor	0.05	2.50	1.18	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,430
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.15	1.22	16.7	0.00	0.00	4.62	4.62	0.00	1.08	1.08	4,466
Vendor	0.04	1.80	0.83	0.01	0.01	0.48	0.50	0.01	0.13	0.15	1,736
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	0.21	0.22	3.05	0.00	0.00	0.84	0.84	0.00	0.20	0.20	739
Vendor	0.01	0.33	0.15	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	287
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Existing Buildings-Interior Buildout (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.79	7.73	11.2	0.02	0.24	—	0.24	0.22	—	0.22	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.41	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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	1.64	1.49	26.4	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,504
Vendor	0.06	2.39	1.15	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,434
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.62	1.71	22.3	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,156
Vendor	0.05	2.50	1.18	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,430
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.15	1.22	16.7	0.00	0.00	4.62	4.62	0.00	1.08	1.08	4,466
Vendor	0.04	1.80	0.83	0.01	0.01	0.48	0.50	0.01	0.13	0.15	1,736
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	0.21	0.22	3.05	0.00	0.00	0.84	0.84	0.00	0.20	0.20	739
Vendor	0.01	0.33	0.15	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	287
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Existing Buildings-Interior Buildout (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.62	11.2	0.02	0.23	—	0.23	0.21	—	0.21	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.39	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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	1.58	1.27	24.8	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,398
Vendor	0.05	2.29	1.11	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.55	1.50	20.9	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,057
Vendor	0.05	2.40	1.14	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,356

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.10	1.07	15.7	0.00	0.00	4.62	4.62	0.00	1.08	1.08	4,393
Vendor	0.04	1.71	0.80	0.01	0.01	0.48	0.50	0.01	0.13	0.15	1,684
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	0.20	0.20	2.87	0.00	0.00	0.84	0.84	0.00	0.20	0.20	727
Vendor	0.01	0.31	0.15	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Existing Buildings-Interior Buildout (2030) - 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	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.62	11.2	0.02	0.23	—	0.23	0.21	—	0.21	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	1.39	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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	1.58	1.27	24.8	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,398
Vendor	0.05	2.29	1.11	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.55	1.50	20.9	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,057
Vendor	0.05	2.40	1.14	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,356
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	1.10	1.07	15.7	0.00	0.00	4.62	4.62	0.00	1.08	1.08	4,393
Vendor	0.04	1.71	0.80	0.01	0.01	0.48	0.50	0.01	0.13	0.15	1,684
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	0.20	0.20	2.87	0.00	0.00	0.84	0.84	0.00	0.20	0.20	727
Vendor	0.01	0.31	0.15	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Existing Buildings-Interior Buildout (2031) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	10.4	15.7	0.03	0.31	—	0.31	0.29	—	0.29	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.06	1.60	< 0.005	0.03	—	0.03	0.03	—	0.03	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	52.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.28	1.49	19.6	0.00	0.00	6.54	6.54	0.00	1.53	1.53	5,967
Vendor	0.05	2.30	1.08	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,282
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	0.15	2.09	0.00	0.00	0.66	0.66	0.00	0.15	0.15	617
Vendor	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	232
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	0.38	0.00	0.00	0.12	0.12	0.00	0.03	0.03	102
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Existing Buildings-Interior Buildout (2031) - 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	1.07	10.4	15.7	0.03	0.31	—	0.31	0.29	—	0.29	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.06	1.60	< 0.005	0.03	—	0.03	0.03	—	0.03	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	52.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.28	1.49	19.6	0.00	0.00	6.54	6.54	0.00	1.53	1.53	5,967
Vendor	0.05	2.30	1.08	0.02	0.02	0.68	0.70	0.02	0.19	0.21	2,282
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	0.15	2.09	0.00	0.00	0.66	0.66	0.00	0.15	0.15	617

Vendor	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	232
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	0.38	0.00	0.00	0.12	0.12	0.00	0.03	0.03	102
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Closeout (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.62	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	84.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.3
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.54
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	187
Vendor	0.01	0.38	0.19	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.04	0.04	0.00	0.01	0.01	32.9
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	72.2
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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.44
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Closeout (2031) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.62	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	84.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.3
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.54
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	187
Vendor	0.01	0.38	0.19	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.04	0.04	0.00	0.01	0.01	32.9
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	72.2
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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.44
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Architectural Coating (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.67	—	—	—	—	—	—	—	—	—	—
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	1.40	—	—	—	—	—	—	—	—	—	—
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

3.32. Architectural Coating (2031) - 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	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.67	—	—	—	—	—	—	—	—	—	—
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	1.40	—	—	—	—	—	—	—	—	—	—
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 High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	444
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	99.0
Total	—	—	—	—	—	—	—	—	—	—	543

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	444
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	99.0
Total	—	—	—	—	—	—	—	—	—	—	543

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	3.55	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Total	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Total	10.3	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.75	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Total	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.55	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Total	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Total	10.3	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.75	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Total	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	253
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	253
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	253
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	41.8
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.8

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	202
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	202
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	202
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	33.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	33.4

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	495
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	495
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	495
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	495
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	81.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	81.9

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	119
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	119
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	119
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	19.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	19.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.53
Total	—	—	—	—	—	—	—	—	—	—	0.53

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.53
Total	—	—	—	—	—	—	—	—	—	—	0.53

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.28	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Existing Buildings-Selective Demolition	Demolition	8/23/2027	6/21/2028	5.00	204	—
New Tower-Structural Demolition	Demolition	4/11/2028	8/2/2028	5.00	78.0	—
Utility Relocation	Site Preparation	8/9/2027	9/20/2027	5.00	28.0	—
New Tower-Grading and Prep for Foundation	Grading	8/3/2028	12/15/2028	5.00	91.0	—
Existing Buildings-Structural Upgrades	Building Construction	6/22/2028	8/29/2029	5.00	296	—
New Tower-Skin	Building Construction	7/9/2029	11/5/2030	5.00	330	—

New Tower-Foundation	Building Construction	12/16/2028	12/28/2028	5.00	7.00	—
Existing Buildings-Interior Buildout	Building Construction	12/13/2028	2/21/2031	5.00	542	—
Closeout	Paving	5/5/2031	8/8/2031	5.00	66.0	—
Architectural Coating	Architectural Coating	1/1/2031	8/8/2031	5.00	158	—

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
Existing Buildings-Selective Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
Existing Buildings-Selective Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
Existing Buildings-Selective Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Selective Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
Existing Buildings-Selective Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Existing Buildings-Selective Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Existing Buildings-Selective Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Existing Buildings-Selective Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29

Existing Buildings-Selective Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Existing Buildings-Selective Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Existing Buildings-Selective Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
New Tower-Structural Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
New Tower-Structural Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Structural Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
New Tower-Structural Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
New Tower-Structural Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Structural Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Structural Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
New Tower-Structural Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Structural Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Utility Relocation	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Utility Relocation	Excavators	Electric	Average	1.00	8.00	158	0.38

Utility Relocation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Utility Relocation	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Utility Relocation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Utility Relocation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Utility Relocation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Utility Relocation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
New Tower-Grading and Prep for Foundation	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
New Tower-Grading and Prep for Foundation	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Grading and Prep for Foundation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
New Tower-Grading and Prep for Foundation	Excavators	Electric	Average	2.00	8.00	158	0.38
New Tower-Grading and Prep for Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Grading and Prep for Foundation	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
New Tower-Grading and Prep for Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
New Tower-Grading and Prep for Foundation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Grading and Prep for Foundation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
New Tower-Grading and Prep for Foundation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Grading and Prep for Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Structural Upgrades	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48

Existing Buildings-Structural Upgrades	Cranes	Electric	Average	1.00	1.00	367	0.29
Existing Buildings-Structural Upgrades	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Structural Upgrades	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Existing Buildings-Structural Upgrades	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Structural Upgrades	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	Electric	Average	1.00	8.00	8.00	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
New Tower-Skin	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
New Tower-Skin	Aerial Lifts	Electric	Average	2.00	8.00	46.0	0.31
New Tower-Skin	Cranes	Electric	Average	1.00	8.00	367	0.29
New Tower-Skin	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
New Tower-Skin	Welders	Electric	Average	2.00	8.00	46.0	0.45
New Tower-Foundation	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
New Tower-Foundation	Cement and Mortar Mixers	Electric	Average	4.00	8.00	10.0	0.56
New Tower-Foundation	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
New Tower-Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40

Existing Buildings-Interior Buildout	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Existing Buildings-Interior Buildout	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Existing Buildings-Interior Buildout	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Existing Buildings-Interior Buildout	Cement and Mortar Mixers	Electric	Average	2.00	8.00	10.0	0.56
Existing Buildings-Interior Buildout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Existing Buildings-Interior Buildout	Cranes	Electric	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
Existing Buildings-Interior Buildout	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Interior Buildout	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Interior Buildout	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
Existing Buildings-Interior Buildout	Rough Terrain Forklifts	Diesel	Average	3.00	8.00	96.0	0.40

Existing Buildings-Interior Buildout	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Interior Buildout	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Interior Buildout	Welders	Electric	Average	2.00	8.00	46.0	0.45
Closeout	Cement and Mortar Mixers	Electric	Average	1.00	8.00	10.0	0.56
Closeout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Closeout	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Closeout	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Closeout	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Existing Buildings-Selective Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
Existing Buildings-Selective Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
Existing Buildings-Selective Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Selective Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37

Existing Buildings-Selective Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Existing Buildings-Selective Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Existing Buildings-Selective Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Existing Buildings-Selective Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Selective Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Existing Buildings-Selective Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Existing Buildings-Selective Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
New Tower-Structural Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
New Tower-Structural Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Structural Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
New Tower-Structural Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
New Tower-Structural Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Structural Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36

New Tower-Structural Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Structural Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
New Tower-Structural Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Structural Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Utility Relocation	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Utility Relocation	Excavators	Electric	Average	1.00	8.00	158	0.38
Utility Relocation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Utility Relocation	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Utility Relocation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Utility Relocation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Utility Relocation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Utility Relocation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
New Tower-Grading and Prep for Foundation	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
New Tower-Grading and Prep for Foundation	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Grading and Prep for Foundation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
New Tower-Grading and Prep for Foundation	Excavators	Electric	Average	2.00	8.00	158	0.38
New Tower-Grading and Prep for Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Grading and Prep for Foundation	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
New Tower-Grading and Prep for Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36

New Tower-Grading and Prep for Foundation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Grading and Prep for Foundation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
New Tower-Grading and Prep for Foundation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Grading and Prep for Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Structural Upgrades	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
Existing Buildings-Structural Upgrades	Cranes	Electric	Average	1.00	1.00	367	0.29
Existing Buildings-Structural Upgrades	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Structural Upgrades	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Existing Buildings-Structural Upgrades	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Structural Upgrades	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	Electric	Average	1.00	8.00	8.00	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
New Tower-Skin	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48

New Tower-Skin	Aerial Lifts	Electric	Average	2.00	8.00	46.0	0.31
New Tower-Skin	Cranes	Electric	Average	1.00	8.00	367	0.29
New Tower-Skin	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
New Tower-Skin	Welders	Electric	Average	2.00	8.00	46.0	0.45
New Tower-Foundation	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
New Tower-Foundation	Cement and Mortar Mixers	Electric	Average	4.00	8.00	10.0	0.56
New Tower-Foundation	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
New Tower-Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Existing Buildings-Interior Buildout	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Existing Buildings-Interior Buildout	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Existing Buildings-Interior Buildout	Cement and Mortar Mixers	Electric	Average	2.00	8.00	10.0	0.56
Existing Buildings-Interior Buildout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Existing Buildings-Interior Buildout	Cranes	Electric	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Forklifts	Electric	Average	2.00	8.00	82.0	0.20

Existing Buildings-Interior Buildout	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Interior Buildout	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Interior Buildout	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
Existing Buildings-Interior Buildout	Rough Terrain Forklifts	Diesel	Average	3.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Interior Buildout	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Interior Buildout	Welders	Electric	Average	2.00	8.00	46.0	0.45
Closeout	Cement and Mortar Mixers	Electric	Average	1.00	8.00	10.0	0.56
Closeout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Closeout	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Closeout	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Closeout	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56

5.3. Construction Vehicles

5.3.1. Unmitigated

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

Existing Buildings-Selective Demolition	—	—	—	—
Existing Buildings-Selective Demolition	Worker	120	18.5	LDA,LDT1,LDT2
Existing Buildings-Selective Demolition	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Selective Demolition	Hauling	64.0	27.0	HHDT
Existing Buildings-Selective Demolition	Onsite truck	0.00	0.00	HHDT
New Tower-Structural Demolition	—	—	—	—
New Tower-Structural Demolition	Worker	200	18.5	LDA,LDT1,LDT2
New Tower-Structural Demolition	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Structural Demolition	Hauling	64.0	27.0	HHDT
New Tower-Structural Demolition	Onsite truck	0.00	—	HHDT
Utility Relocation	—	—	—	—
Utility Relocation	Worker	60.0	18.5	LDA,LDT1,LDT2
Utility Relocation	Vendor	0.00	10.2	HHDT,MHDT
Utility Relocation	Hauling	10.0	27.0	HHDT
Utility Relocation	Onsite truck	0.00	—	HHDT
New Tower-Grading and Prep for Foundation	—	—	—	—
New Tower-Grading and Prep for Foundation	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Grading and Prep for Foundation	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Grading and Prep for Foundation	Hauling	150	27.0	HHDT
New Tower-Grading and Prep for Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Structural Upgrades	—	—	—	—
Existing Buildings-Structural Upgrades	Worker	250	18.5	LDA,LDT1,LDT2
Existing Buildings-Structural Upgrades	Vendor	160	10.2	HHDT,MHDT
Existing Buildings-Structural Upgrades	Hauling	0.00	20.0	HHDT

Existing Buildings-Structural Upgrades	Onsite truck	0.00	—	HHDT
New Tower-Skin	—	—	—	—
New Tower-Skin	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Skin	Vendor	20.0	10.2	HHDT,MHDT
New Tower-Skin	Hauling	0.00	20.0	HHDT
New Tower-Skin	Onsite truck	0.00	—	HHDT
New Tower-Foundation	—	—	—	—
New Tower-Foundation	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Foundation	Vendor	680	10.2	HHDT
New Tower-Foundation	Hauling	0.00	20.0	HHDT
New Tower-Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Interior Buildout	—	—	—	—
Existing Buildings-Interior Buildout	Worker	500	18.5	LDA,LDT1,LDT2
Existing Buildings-Interior Buildout	Vendor	80.0	10.2	HHDT,MHDT
Existing Buildings-Interior Buildout	Hauling	0.00	20.0	HHDT
Existing Buildings-Interior Buildout	Onsite truck	0.00	—	HHDT
Closeout	—	—	—	—
Closeout	Worker	15.0	18.5	LDA,LDT1,LDT2
Closeout	Vendor	14.0	10.2	HHDT,MHDT
Closeout	Hauling	0.00	20.0	HHDT
Closeout	Onsite truck	0.00	—	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	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Existing Buildings-Selective Demolition	—	—	—	—
Existing Buildings-Selective Demolition	Worker	120	18.5	LDA,LDT1,LDT2
Existing Buildings-Selective Demolition	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Selective Demolition	Hauling	64.0	27.0	HHDT
Existing Buildings-Selective Demolition	Onsite truck	0.00	0.00	HHDT
New Tower-Structural Demolition	—	—	—	—
New Tower-Structural Demolition	Worker	200	18.5	LDA,LDT1,LDT2
New Tower-Structural Demolition	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Structural Demolition	Hauling	64.0	27.0	HHDT
New Tower-Structural Demolition	Onsite truck	0.00	—	HHDT
Utility Relocation	—	—	—	—
Utility Relocation	Worker	60.0	18.5	LDA,LDT1,LDT2
Utility Relocation	Vendor	0.00	10.2	HHDT,MHDT
Utility Relocation	Hauling	10.0	27.0	HHDT
Utility Relocation	Onsite truck	0.00	—	HHDT
New Tower-Grading and Prep for Foundation	—	—	—	—
New Tower-Grading and Prep for Foundation	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Grading and Prep for Foundation	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Grading and Prep for Foundation	Hauling	150	27.0	HHDT
New Tower-Grading and Prep for Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Structural Upgrades	—	—	—	—
Existing Buildings-Structural Upgrades	Worker	250	18.5	LDA,LDT1,LDT2

Existing Buildings-Structural Upgrades	Vendor	160	10.2	HHDT,MHDT
Existing Buildings-Structural Upgrades	Hauling	0.00	20.0	HHDT
Existing Buildings-Structural Upgrades	Onsite truck	0.00	—	HHDT
New Tower-Skin	—	—	—	—
New Tower-Skin	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Skin	Vendor	20.0	10.2	HHDT,MHDT
New Tower-Skin	Hauling	0.00	20.0	HHDT
New Tower-Skin	Onsite truck	0.00	—	HHDT
New Tower-Foundation	—	—	—	—
New Tower-Foundation	Worker	80.0	18.5	LDA,LDT1,LDT2
New Tower-Foundation	Vendor	680	10.2	HHDT
New Tower-Foundation	Hauling	0.00	20.0	HHDT
New Tower-Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Interior Buildout	—	—	—	—
Existing Buildings-Interior Buildout	Worker	500	18.5	LDA,LDT1,LDT2
Existing Buildings-Interior Buildout	Vendor	80.0	10.2	HHDT,MHDT
Existing Buildings-Interior Buildout	Hauling	0.00	20.0	HHDT
Existing Buildings-Interior Buildout	Onsite truck	0.00	—	HHDT
Closeout	—	—	—	—
Closeout	Worker	15.0	18.5	LDA,LDT1,LDT2
Closeout	Vendor	14.0	10.2	HHDT,MHDT
Closeout	Hauling	0.00	20.0	HHDT
Closeout	Onsite truck	0.00	—	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	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	905,904	301,968	0.00	0.00	—

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)
Existing Buildings-Selective Demolition	0.00	0.00	0.00	26,000	—
New Tower-Structural Demolition	0.00	0.00	0.00	25,884	—
Utility Relocation	0.00	0.00	0.00	0.00	—
New Tower-Grading and Prep for Foundation	0.00	18,239	91.0	0.00	—
Closeout	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 High Rise	—	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
2027	2,472	690	0.05	0.01
2028	7,199	690	0.05	0.01
2029	3,724	690	0.05	0.01
2030	3,315	690	0.05	0.01
2031	2,393	690	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	1,213	1,213	1,213	442,745	7,564	7,564	7,564	2,760,860

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	1,213	1,213	1,213	442,745	7,564	7,564	7,564	2,760,860

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)
905904	301,968	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,921,583	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	651,169	332	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 High Rise	2,921,583	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	651,169	332	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 High Rise	17,369,591	233,120
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	13,895,673	186,496
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 High Rise	262	—
Enclosed Parking with Elevator	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	63.0	—
Enclosed Parking with Elevator	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 High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	1.00	200	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	50.5
AQ-PM	90.0
AQ-DPM	99.7
Drinking Water	92.5
Lead Risk Housing	33.3
Pesticides	16.6
Toxic Releases	80.3
Traffic	84.6
Effect Indicators	—
CleanUp Sites	74.3
Groundwater	33.0
Haz Waste Facilities/Generators	94.3
Impaired Water Bodies	66.7

Solid Waste	99.5
Sensitive Population	—
Asthma	60.9
Cardio-vascular	15.7
Low Birth Weights	18.2
Socioeconomic Factor Indicators	—
Education	33.5
Housing	38.1
Linguistic	75.2
Poverty	46.6
Unemployment	32.3

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	38.56024637
Employed	92.87822405
Median HI	46.43911202
Education	—
Bachelor's or higher	89.67021686
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	4.837674836
Active commuting	94.84152445
Social	—

2-parent households	13.10150135
Voting	14.78249711
Neighborhood	—
Alcohol availability	4.516874118
Park access	61.10612088
Retail density	99.61503914
Supermarket access	94.25125112
Tree canopy	9.816501989
Housing	—
Homeownership	5.286795842
Housing habitability	24.39368664
Low-inc homeowner severe housing cost burden	88.19453356
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	30.56589247
Health Outcomes	—
Insured adults	48.91569357
Arthritis	88.1
Asthma ER Admissions	36.6
High Blood Pressure	48.4
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	74.7
Chronic Obstructive Pulmonary Disease	88.0
Diagnosed Diabetes	64.3
Life Expectancy at Birth	92.7
Cognitively Disabled	39.7
Physically Disabled	16.6

Heart Attack ER Admissions	88.8
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	84.3
Pedestrian Injuries	98.2
Physical Health Not Good	77.4
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	69.0
No Leisure Time for Physical Activity	64.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	42.6
English Speaking	26.9
Foreign-born	66.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	3.2
Traffic Density	91.2
Traffic Access	87.4
Other Indices	—
Hardship	37.4
Other Decision Support	—
2016 Voting	20.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
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	Carbon Intensity for 2031
Land Use	Population from VMT Calculator 4.285 Acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Operations: Hearths	No Hearths
Operations: Energy Use	All Electric

Characteristics: Project Details	South Coast Air Basin
Operations: Generators + Pumps EF	SCAQMD Rule 1470
Operations: Landscape Equipment	Test

The Bloc - Construction Onsite Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Bloc - Construction Onsite
Construction Start Date	8/1/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.047466497954176, -118.25913605847032
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4045
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	466	Dwelling Unit	4.29	447,360	13,600	0.00	1,050	—

Enclosed Parking with Elevator	441	Space	0.00	176,400	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. 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.	17.7	25.8	45.2	0.07	1.10	0.28	1.38	1.01	0.04	1.06	8,022
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.8	36.2	53.7	0.10	1.32	0.28	1.60	1.21	0.03	1.24	10,127
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.78	15.3	24.6	0.04	0.61	0.14	0.75	0.56	0.02	0.58	4,486
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	2.78	4.48	0.01	0.11	0.03	0.14	0.10	< 0.005	0.11	743

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	2.19	17.9	29.0	0.05	0.75	0.08	0.83	0.69	0.01	0.70	4,982
2028	3.31	25.8	45.2	0.07	1.10	0.28	1.38	1.01	0.04	1.06	8,022
2029	2.22	21.3	30.7	0.06	0.67	0.00	0.67	0.61	0.00	0.61	6,082
2030	1.09	10.7	15.7	0.03	0.32	0.00	0.32	0.30	0.00	0.30	3,124
2031	17.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.36
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.73	13.8	22.6	0.04	0.62	0.08	0.70	0.57	0.01	0.58	4,018
2028	3.96	36.2	53.7	0.10	1.32	0.28	1.60	1.21	0.03	1.24	10,127
2029	2.22	21.3	30.7	0.06	0.67	0.00	0.67	0.61	0.00	0.61	6,082
2030	1.09	10.7	15.7	0.03	0.32	0.00	0.32	0.30	0.00	0.30	3,124
2031	18.8	10.4	15.7	0.03	0.31	0.00	0.31	0.29	0.00	0.29	3,126
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.48	3.86	6.28	0.01	0.17	0.02	0.19	0.16	< 0.005	0.16	1,105
2028	1.82	15.3	24.6	0.04	0.61	0.14	0.75	0.56	0.02	0.58	4,486
2029	1.31	12.7	18.3	0.04	0.39	0.00	0.39	0.36	0.00	0.36	3,630
2030	0.78	7.62	11.2	0.02	0.23	0.00	0.23	0.21	0.00	0.21	2,234
2031	7.78	1.06	1.60	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	322
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.09	0.70	1.15	< 0.005	0.03	< 0.005	0.03	0.03	< 0.005	0.03	183
2028	0.33	2.78	4.48	0.01	0.11	0.03	0.14	0.10	< 0.005	0.11	743
2029	0.24	2.31	3.34	0.01	0.07	0.00	0.07	0.07	0.00	0.07	601
2030	0.14	1.39	2.05	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	370
2031	1.42	0.19	0.29	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	53.3

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	2.19	17.9	29.0	0.05	0.75	0.08	0.83	0.69	0.01	0.70	4,982
2028	3.31	25.8	45.2	0.07	1.10	0.28	1.38	1.01	0.04	1.06	8,022
2029	2.22	21.3	30.7	0.06	0.67	0.00	0.67	0.61	0.00	0.61	6,082
2030	1.09	10.7	15.7	0.03	0.32	0.00	0.32	0.30	0.00	0.30	3,124
2031	17.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.36
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.73	13.8	22.6	0.04	0.62	0.08	0.70	0.57	0.01	0.58	4,018
2028	3.96	36.2	53.7	0.10	1.32	0.28	1.60	1.21	0.03	1.24	10,127
2029	2.22	21.3	30.7	0.06	0.67	0.00	0.67	0.61	0.00	0.61	6,082
2030	1.09	10.7	15.7	0.03	0.32	0.00	0.32	0.30	0.00	0.30	3,124
2031	18.8	10.4	15.7	0.03	0.31	0.00	0.31	0.29	0.00	0.29	3,126
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.48	3.86	6.28	0.01	0.17	0.02	0.19	0.16	< 0.005	0.16	1,105
2028	1.82	15.3	24.6	0.04	0.61	0.14	0.75	0.56	0.02	0.58	4,486
2029	1.31	12.7	18.3	0.04	0.39	0.00	0.39	0.36	0.00	0.36	3,630
2030	0.78	7.62	11.2	0.02	0.23	0.00	0.23	0.21	0.00	0.21	2,234
2031	7.78	1.06	1.60	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	322
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.09	0.70	1.15	< 0.005	0.03	< 0.005	0.03	0.03	< 0.005	0.03	183
2028	0.33	2.78	4.48	0.01	0.11	0.03	0.14	0.10	< 0.005	0.11	743
2029	0.24	2.31	3.34	0.01	0.07	0.00	0.07	0.07	0.00	0.07	601
2030	0.14	1.39	2.05	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	370
2031	1.42	0.19	0.29	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	53.3

3. Construction Emissions Details

3.1. Demolition (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	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	3.55	5.78	0.01	0.16	—	0.16	0.15	—	0.15	1,026
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	170
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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

3.2. Demolition (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	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.73	13.8	22.6	0.04	0.62	—	0.62	0.57	—	0.57	4,004
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	3.55	5.78	0.01	0.16	—	0.16	0.15	—	0.15	1,026
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.06	< 0.005	0.03	—	0.03	0.03	—	0.03	170
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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

3.3. Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	4.36	7.65	0.01	0.19	—	0.19	0.17	—	0.17	1,356
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.10	0.80	1.40	< 0.005	0.03	—	0.03	0.03	—	0.03	224
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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

3.4. Demolition (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	4.36	7.65	0.01	0.19	—	0.19	0.17	—	0.17	1,356
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.80	1.40	< 0.005	0.03	—	0.03	0.03	—	0.03	224
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
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

3.5. Demolition (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	2.75	4.83	0.01	0.12	—	0.12	0.11	—	0.11	856
Demolition	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.50	0.88	< 0.005	0.02	—	0.02	0.02	—	0.02	142
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Demolition (2028) - Mitigated

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

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

Off-Road Equipment	1.65	12.9	22.6	0.04	0.55	—	0.55	0.51	—	0.51	4,005
Demolition	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	2.75	4.83	0.01	0.12	—	0.12	0.11	—	0.11	856
Demolition	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.50	0.88	< 0.005	0.02	—	0.02	0.02	—	0.02	142
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Site Preparation (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	0.46	4.02	6.45	0.01	0.13	—	0.13	0.12	—	0.12	965
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	74.0
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.3
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.8. Site Preparation (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.02	6.45	0.01	0.13	—	0.13	0.12	—	0.12	965
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	74.0
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.3
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.9. Grading (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.56	5.69	0.01	0.15	—	0.15	0.14	—	0.14	1,007
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	167

Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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

3.10. Grading (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	22.8	0.04	0.62	—	0.62	0.57	—	0.57	4,038
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.03	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.56	5.69	0.01	0.15	—	0.15	0.14	—	0.14	1,007
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.65	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	167
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
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

3.11. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	4.08	5.68	0.01	0.13	—	0.13	0.12	—	0.12	1,117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.75	1.04	< 0.005	0.02	—	0.02	0.02	—	0.02	185
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

3.12. Building Construction (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	10.8	15.0	0.03	0.35	—	0.35	0.32	—	0.32	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	4.08	5.68	0.01	0.13	—	0.13	0.12	—	0.12	1,117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.75	1.04	< 0.005	0.02	—	0.02	0.02	—	0.02	185
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

3.13. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.53	4.95	7.07	0.01	0.16	—	0.16	0.15	—	0.15	1,395
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.90	1.29	< 0.005	0.03	—	0.03	0.03	—	0.03	231
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

3.14. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	10.5	15.0	0.03	0.33	—	0.33	0.31	—	0.31	2,958
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	4.95	7.07	0.01	0.16	—	0.16	0.15	—	0.15	1,395
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.90	1.29	< 0.005	0.03	—	0.03	0.03	—	0.03	231
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

3.15. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (2029) - Mitigated

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

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

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.17. Building Construction (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

3.18. Building Construction (2030) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.59	6.06	0.01	0.14	—	0.14	0.13	—	0.13	1,046
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.20. Building Construction (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.59	6.06	0.01	0.14	—	0.14	0.13	—	0.13	1,046
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

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

3.21. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	11.1	15.8	0.03	0.35	—	0.35	0.32	—	0.32	3,120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.41	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	19.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

3.22. Building Construction (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	11.1	15.8	0.03	0.35	—	0.35	0.32	—	0.32	3,120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.41	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	19.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.23. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	7.73	11.2	0.02	0.24	—	0.24	0.22	—	0.22	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.41	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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

3.24. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	10.8	15.7	0.03	0.33	—	0.33	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.79	7.73	11.2	0.02	0.24	—	0.24	0.22	—	0.22	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.41	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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

3.25. Building Construction (2030) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.62	11.2	0.02	0.23	—	0.23	0.21	—	0.21	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.39	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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

3.26. Building Construction (2030) - 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	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	10.7	15.7	0.03	0.32	—	0.32	0.30	—	0.30	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	7.62	11.2	0.02	0.23	—	0.23	0.21	—	0.21	2,228
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	1.39	2.05	< 0.005	0.04	—	0.04	0.04	—	0.04	369
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

3.27. Building Construction (2031) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	10.4	15.7	0.03	0.31	—	0.31	0.29	—	0.29	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.06	1.60	< 0.005	0.03	—	0.03	0.03	—	0.03	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	52.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Building Construction (2031) - 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	1.07	10.4	15.7	0.03	0.31	—	0.31	0.29	—	0.29	3,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.06	1.60	< 0.005	0.03	—	0.03	0.03	—	0.03	317
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	52.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

3.29. Paving (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

3.30. Paving (2031) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Paving	0.00	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

3.31. Architectural Coating (2031) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.67	—	—	—	—	—	—	—	—	—	—
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	1.40	—	—	—	—	—	—	—	—	—	—
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

3.32. Architectural Coating (2031) - 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	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.7	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.67	—	—	—	—	—	—	—	—	—	—
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	1.40	—	—	—	—	—	—	—	—	—	—
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
Existing Buildings-Selective Demolition	Demolition	8/23/2027	6/21/2028	5.00	204	—

New Tower-Structural Demolition	Demolition	4/11/2028	8/2/2028	5.00	78.0	—
Utility Relocation	Site Preparation	8/9/2027	9/20/2027	5.00	28.0	—
New Tower-Grading and Prep for Foundation	Grading	8/3/2028	12/15/2028	5.00	91.0	—
Existing Buildings-Structural Upgrades	Building Construction	6/22/2028	8/29/2029	5.00	296	—
New Tower-Skin	Building Construction	7/9/2029	11/5/2030	5.00	330	—
New Tower-Foundation	Building Construction	12/16/2028	12/28/2028	5.00	7.00	—
Existing Buildings-Interior Buildout	Building Construction	12/13/2028	2/21/2031	5.00	542	—
Closeout	Paving	5/5/2031	8/8/2031	5.00	66.0	—
Architectural Coating	Architectural Coating	1/1/2031	8/8/2031	5.00	158	—

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
Existing Buildings-Selective Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
Existing Buildings-Selective Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
Existing Buildings-Selective Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Selective Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37

Existing Buildings-Selective Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Existing Buildings-Selective Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Existing Buildings-Selective Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Existing Buildings-Selective Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Selective Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Existing Buildings-Selective Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Existing Buildings-Selective Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
New Tower-Structural Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
New Tower-Structural Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Structural Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
New Tower-Structural Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
New Tower-Structural Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Structural Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36

New Tower-Structural Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Structural Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
New Tower-Structural Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Structural Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Utility Relocation	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Utility Relocation	Excavators	Electric	Average	1.00	8.00	158	0.38
Utility Relocation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Utility Relocation	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Utility Relocation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Utility Relocation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Utility Relocation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Utility Relocation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
New Tower-Grading and Prep for Foundation	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
New Tower-Grading and Prep for Foundation	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Grading and Prep for Foundation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
New Tower-Grading and Prep for Foundation	Excavators	Electric	Average	2.00	8.00	158	0.38
New Tower-Grading and Prep for Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Grading and Prep for Foundation	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
New Tower-Grading and Prep for Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36

New Tower-Grading and Prep for Foundation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Grading and Prep for Foundation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
New Tower-Grading and Prep for Foundation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Grading and Prep for Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Structural Upgrades	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
Existing Buildings-Structural Upgrades	Cranes	Electric	Average	1.00	1.00	367	0.29
Existing Buildings-Structural Upgrades	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Structural Upgrades	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Existing Buildings-Structural Upgrades	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Structural Upgrades	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Structural Upgrades	Plate Compactors	Electric	Average	1.00	8.00	8.00	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
New Tower-Skin	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48

New Tower-Skin	Aerial Lifts	Electric	Average	2.00	8.00	46.0	0.31
New Tower-Skin	Cranes	Electric	Average	1.00	8.00	367	0.29
New Tower-Skin	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
New Tower-Skin	Welders	Electric	Average	2.00	8.00	46.0	0.45
New Tower-Foundation	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
New Tower-Foundation	Cement and Mortar Mixers	Electric	Average	4.00	8.00	10.0	0.56
New Tower-Foundation	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
New Tower-Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Existing Buildings-Interior Buildout	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Existing Buildings-Interior Buildout	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Existing Buildings-Interior Buildout	Cement and Mortar Mixers	Electric	Average	2.00	8.00	10.0	0.56
Existing Buildings-Interior Buildout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Existing Buildings-Interior Buildout	Cranes	Electric	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Forklifts	Electric	Average	2.00	8.00	82.0	0.20

Existing Buildings-Interior Buildout	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Interior Buildout	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Interior Buildout	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
Existing Buildings-Interior Buildout	Rough Terrain Forklifts	Diesel	Average	3.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Interior Buildout	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Interior Buildout	Welders	Electric	Average	2.00	8.00	46.0	0.45
Closeout	Cement and Mortar Mixers	Electric	Average	1.00	8.00	10.0	0.56
Closeout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Closeout	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Closeout	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Existing Buildings-Selective Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73

Existing Buildings-Selective Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
Existing Buildings-Selective Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Selective Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
Existing Buildings-Selective Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Existing Buildings-Selective Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Existing Buildings-Selective Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
Existing Buildings-Selective Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Selective Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Existing Buildings-Selective Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Existing Buildings-Selective Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Air Compressors	Electric	Average	4.00	8.00	37.0	0.48
New Tower-Structural Demolition	Concrete/Industrial Saws	Electric	Average	2.00	8.00	33.0	0.73
New Tower-Structural Demolition	Cranes	Diesel	Average	1.00	8.00	367	0.29

New Tower-Structural Demolition	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
New Tower-Structural Demolition	Excavators	Electric	Average	1.00	8.00	158	0.38
New Tower-Structural Demolition	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Structural Demolition	Rubber Tired Loaders	Diesel	Average	3.00	8.00	150	0.36
New Tower-Structural Demolition	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Structural Demolition	Skid Steer Loaders	Electric	Average	4.00	8.00	71.0	0.37
New Tower-Structural Demolition	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Structural Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Utility Relocation	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Utility Relocation	Excavators	Electric	Average	1.00	8.00	158	0.38
Utility Relocation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Utility Relocation	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Utility Relocation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Utility Relocation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
Utility Relocation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Utility Relocation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
New Tower-Grading and Prep for Foundation	Bore/Drill Rigs	Diesel	Average	2.00	8.00	83.0	0.50
New Tower-Grading and Prep for Foundation	Cranes	Diesel	Average	1.00	8.00	367	0.29
New Tower-Grading and Prep for Foundation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43

New Tower-Grading and Prep for Foundation	Excavators	Electric	Average	2.00	8.00	158	0.38
New Tower-Grading and Prep for Foundation	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
New Tower-Grading and Prep for Foundation	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
New Tower-Grading and Prep for Foundation	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
New Tower-Grading and Prep for Foundation	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
New Tower-Grading and Prep for Foundation	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37
New Tower-Grading and Prep for Foundation	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
New Tower-Grading and Prep for Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Structural Upgrades	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
Existing Buildings-Structural Upgrades	Cranes	Electric	Average	1.00	1.00	367	0.29
Existing Buildings-Structural Upgrades	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Structural Upgrades	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Existing Buildings-Structural Upgrades	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Structural Upgrades	Pumps	Diesel	Average	2.00	8.00	11.0	0.74

Existing Buildings-Structural Upgrades	Plate Compactors	Electric	Average	1.00	8.00	8.00	0.43
Existing Buildings-Structural Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Structural Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
New Tower-Skin	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
New Tower-Skin	Aerial Lifts	Electric	Average	2.00	8.00	46.0	0.31
New Tower-Skin	Cranes	Electric	Average	1.00	8.00	367	0.29
New Tower-Skin	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
New Tower-Skin	Welders	Electric	Average	2.00	8.00	46.0	0.45
New Tower-Foundation	Air Compressors	Electric	Average	2.00	8.00	37.0	0.48
New Tower-Foundation	Cement and Mortar Mixers	Electric	Average	4.00	8.00	10.0	0.56
New Tower-Foundation	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
New Tower-Foundation	Rough Terrain Forklifts	Diesel	Average	2.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Air Compressors	Electric	Average	3.00	8.00	37.0	0.48
Existing Buildings-Interior Buildout	Aerial Lifts	Electric	Average	3.00	8.00	46.0	0.31
Existing Buildings-Interior Buildout	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Existing Buildings-Interior Buildout	Cement and Mortar Mixers	Electric	Average	2.00	8.00	10.0	0.56
Existing Buildings-Interior Buildout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73

Existing Buildings-Interior Buildout	Cranes	Electric	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Cranes	Diesel	Average	1.00	8.00	367	0.29
Existing Buildings-Interior Buildout	Forklifts	Electric	Average	2.00	8.00	82.0	0.20
Existing Buildings-Interior Buildout	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Existing Buildings-Interior Buildout	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Existing Buildings-Interior Buildout	Plate Compactors	Electric	Average	2.00	8.00	8.00	0.43
Existing Buildings-Interior Buildout	Rough Terrain Forklifts	Diesel	Average	3.00	8.00	96.0	0.40
Existing Buildings-Interior Buildout	Signal Boards	Electric	Average	2.00	8.00	6.00	0.82
Existing Buildings-Interior Buildout	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Existing Buildings-Interior Buildout	Welders	Electric	Average	2.00	8.00	46.0	0.45
Closeout	Cement and Mortar Mixers	Electric	Average	1.00	8.00	10.0	0.56
Closeout	Concrete/Industrial Saws	Electric	Average	1.00	8.00	33.0	0.73
Closeout	Forklifts	Electric	Average	1.00	8.00	82.0	0.20
Closeout	Skid Steer Loaders	Electric	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Existing Buildings-Selective Demolition	—	—	—	—
Existing Buildings-Selective Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Selective Demolition	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Selective Demolition	Hauling	0.00	27.0	HHDT
Existing Buildings-Selective Demolition	Onsite truck	0.00	0.00	HHDT
New Tower-Structural Demolition	—	—	—	—
New Tower-Structural Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Structural Demolition	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Structural Demolition	Hauling	0.00	27.0	HHDT
New Tower-Structural Demolition	Onsite truck	0.00	—	HHDT
Utility Relocation	—	—	—	—
Utility Relocation	Worker	0.00	18.5	LDA,LDT1,LDT2
Utility Relocation	Vendor	0.00	10.2	HHDT,MHDT
Utility Relocation	Hauling	0.00	27.0	HHDT
Utility Relocation	Onsite truck	0.00	—	HHDT
New Tower-Grading and Prep for Foundation	—	—	—	—
New Tower-Grading and Prep for Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Grading and Prep for Foundation	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Grading and Prep for Foundation	Hauling	0.00	27.0	HHDT
New Tower-Grading and Prep for Foundation	Onsite truck	0.00	—	HHDT

Existing Buildings-Structural Upgrades	—	—	—	—
Existing Buildings-Structural Upgrades	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Structural Upgrades	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Structural Upgrades	Hauling	0.00	20.0	HHDT
Existing Buildings-Structural Upgrades	Onsite truck	0.00	—	HHDT
New Tower-Skin	—	—	—	—
New Tower-Skin	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Skin	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Skin	Hauling	0.00	20.0	HHDT
New Tower-Skin	Onsite truck	0.00	—	HHDT
New Tower-Foundation	—	—	—	—
New Tower-Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Foundation	Vendor	0.00	10.2	HHDT
New Tower-Foundation	Hauling	0.00	20.0	HHDT
New Tower-Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Interior Buildout	—	—	—	—
Existing Buildings-Interior Buildout	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Interior Buildout	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Interior Buildout	Hauling	0.00	20.0	HHDT
Existing Buildings-Interior Buildout	Onsite truck	0.00	—	HHDT
Closeout	—	—	—	—
Closeout	Worker	0.00	18.5	LDA,LDT1,LDT2
Closeout	Vendor	0.00	10.2	HHDT,MHDT
Closeout	Hauling	0.00	20.0	HHDT
Closeout	Onsite truck	0.00	—	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	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Existing Buildings-Selective Demolition	—	—	—	—
Existing Buildings-Selective Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Selective Demolition	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Selective Demolition	Hauling	0.00	27.0	HHDT
Existing Buildings-Selective Demolition	Onsite truck	0.00	0.00	HHDT
New Tower-Structural Demolition	—	—	—	—
New Tower-Structural Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Structural Demolition	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Structural Demolition	Hauling	0.00	27.0	HHDT
New Tower-Structural Demolition	Onsite truck	0.00	—	HHDT
Utility Relocation	—	—	—	—
Utility Relocation	Worker	0.00	18.5	LDA,LDT1,LDT2
Utility Relocation	Vendor	0.00	10.2	HHDT,MHDT
Utility Relocation	Hauling	0.00	27.0	HHDT
Utility Relocation	Onsite truck	0.00	—	HHDT
New Tower-Grading and Prep for Foundation	—	—	—	—
New Tower-Grading and Prep for Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Grading and Prep for Foundation	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Grading and Prep for Foundation	Hauling	0.00	27.0	HHDT

New Tower-Grading and Prep for Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Structural Upgrades	—	—	—	—
Existing Buildings-Structural Upgrades	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Structural Upgrades	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Structural Upgrades	Hauling	0.00	20.0	HHDT
Existing Buildings-Structural Upgrades	Onsite truck	0.00	—	HHDT
New Tower-Skin	—	—	—	—
New Tower-Skin	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Skin	Vendor	0.00	10.2	HHDT,MHDT
New Tower-Skin	Hauling	0.00	20.0	HHDT
New Tower-Skin	Onsite truck	0.00	—	HHDT
New Tower-Foundation	—	—	—	—
New Tower-Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
New Tower-Foundation	Vendor	0.00	10.2	HHDT
New Tower-Foundation	Hauling	0.00	20.0	HHDT
New Tower-Foundation	Onsite truck	0.00	—	HHDT
Existing Buildings-Interior Buildout	—	—	—	—
Existing Buildings-Interior Buildout	Worker	0.00	18.5	LDA,LDT1,LDT2
Existing Buildings-Interior Buildout	Vendor	0.00	10.2	HHDT,MHDT
Existing Buildings-Interior Buildout	Hauling	0.00	20.0	HHDT
Existing Buildings-Interior Buildout	Onsite truck	0.00	—	HHDT
Closeout	—	—	—	—
Closeout	Worker	0.00	18.5	LDA,LDT1,LDT2
Closeout	Vendor	0.00	10.2	HHDT,MHDT
Closeout	Hauling	0.00	20.0	HHDT
Closeout	Onsite truck	0.00	—	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	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	905,904	301,968	0.00	0.00	—

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)
Existing Buildings-Selective Demolition	0.00	0.00	0.00	26,000	—
New Tower-Structural Demolition	0.00	0.00	0.00	25,884	—
Utility Relocation	0.00	0.00	0.00	0.00	—
New Tower-Grading and Prep for Foundation	0.00	18,239	91.0	0.00	—
Closeout	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 High Rise	—	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
2027	2,472	690	0.05	0.01
2028	7,199	690	0.05	0.01
2029	3,724	690	0.05	0.01
2030	3,315	690	0.05	0.01
2031	2,393	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	50.5
AQ-PM	90.0
AQ-DPM	99.7
Drinking Water	92.5
Lead Risk Housing	33.3
Pesticides	16.6
Toxic Releases	80.3
Traffic	84.6

Effect Indicators	—
CleanUp Sites	74.3
Groundwater	33.0
Haz Waste Facilities/Generators	94.3
Impaired Water Bodies	66.7
Solid Waste	99.5
Sensitive Population	—
Asthma	60.9
Cardio-vascular	15.7
Low Birth Weights	18.2
Socioeconomic Factor Indicators	—
Education	33.5
Housing	38.1
Linguistic	75.2
Poverty	46.6
Unemployment	32.3

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	38.56024637
Employed	92.87822405
Median HI	46.43911202
Education	—
Bachelor's or higher	89.67021686
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	4.837674836
Active commuting	94.84152445
Social	—
2-parent households	13.10150135
Voting	14.78249711
Neighborhood	—
Alcohol availability	4.516874118
Park access	61.10612088
Retail density	99.61503914
Supermarket access	94.25125112
Tree canopy	9.816501989
Housing	—
Homeownership	5.286795842
Housing habitability	24.39368664
Low-inc homeowner severe housing cost burden	88.19453356
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	30.56589247
Health Outcomes	—
Insured adults	48.91569357
Arthritis	88.1
Asthma ER Admissions	36.6
High Blood Pressure	48.4
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	74.7

Chronic Obstructive Pulmonary Disease	88.0
Diagnosed Diabetes	64.3
Life Expectancy at Birth	92.7
Cognitively Disabled	39.7
Physically Disabled	16.6
Heart Attack ER Admissions	88.8
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	84.3
Pedestrian Injuries	98.2
Physical Health Not Good	77.4
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	69.0
No Leisure Time for Physical Activity	64.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	42.6
English Speaking	26.9
Foreign-born	66.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	3.2
Traffic Density	91.2

Traffic Access	87.4
Other Indices	—
Hardship	37.4
Other Decision Support	—
2016 Voting	20.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
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	Carbon Intensity for 2031

Land Use	Population from VMT Calculator 4.285 Acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Operations: Hearths	No Hearths
Operations: Energy Use	All Electric
Characteristics: Project Details	South Coast Air Basin
Operations: Generators + Pumps EF	SCAQMD Rule 1470

The Bloc

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

	Flower Street and 8th Street	
	Future with Project	
Direction	AM	PM
Total Intersection Volume	3128	4780
Max Daily Trips[a]	53,379	80,336
Caltrans K Factor (%)[b]	5.86%	5.95%

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

[b] Caltrans K Factor obtained from 101 Freeway Monitoring Station, Postmile 5 which is closest to the Project site. Please refer to: https://dot.ca.gov/programs/traffic-operations/census

The Bloc Project

Draft EIR

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
      - SB 100
      - Electric Vehicle Charging Calculations
  - Appendix B-3.2: CalEEMod Outputs
    - Project No MXD

The Bloc

Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project		
Baseline Floor Area Removed (Buildout Year)[a]	**CO_2e**		
Area	0		
Energy	69		
Mobile	617		
Emergency Generators	0		
Solid Waste	2		
Water/Wastewater	6		
Refrig.	0		
Total	694		
Baseline Floor Area Removed (Buildout Year)[a]	**CO_2e**		
Area	0		
Energy	43		
Mobile	520		
Emergency Generators	0		
Solid Waste	2		
Water/Wastewater	4		
Refrig.	0		
Total	570		
Proposed New Floor Area Buildout (Buildout Year)[b]			
Area	12		
Energy (Building and Signs)	705		
Mobile	901		
Electric Vehicle Charging Credit	(20)		
Emergency Generators	23		
Solid Waste	20		
Water/Wastewater	33		
Refrig.	1		
Construction	244		
Total	**1,918**		
Project (Buildout less Baseline)			
Area	11		
Energy (Building and Signs)	661		
Mobile	381	(984)	MXD Reduction
Electric Vehicle Charging Credit	(20)		
Emergency Generators	23		
Solid Waste	18		
Water/Wastewater	29		
Refrig.	1		
Construction	244		
Total	**1,347**		

[a] Existing Uses

[b] Please refer to CalEEMod outputs for Future uses

The Bloc

3/29/2021

LADOT VMT Calculator Data

VMT Summary

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	587	1,213	1,213	1	1	**1.00**
Daily VMT	4,397	7,564	7,564			

Project without TDM (MXD Data)

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT	Reduction vs. Unadjusted MXD (%)
Home Based Work Production	418	-32.5%	282	5.2	2,174	1,466	
Home Based Other Production	1,157	-68.0%	370	3.9	4,512	1,443	
Non-Home Based Other Production	540	-16.1%	453	8.4	4,536	3,805	
Home-Based Work Attraction	0	0.0%	0	7.8	0	0	
Home-Based Other Attraction	551	-67.2%	181	6.5	3,582	1,177	
Non-Home Based Other Attraction	131	-16.8%	109	7.4	969	807	**45%**
Total	**2,797**				**15,773**	**8,698**	

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	-13.0%	245	1,275	-13.0%	245	1,275
Home Based Other Production	-13.0%	322	1,255	-13.0%	322	1,255
Non-Home Based Other Production	-13.0%	394	3,309	-13.0%	394	3,309
Home-Based Work Attraction	-13.0%	0	0	-13.0%	0	0
Home-Based Other Attraction	-13.0%	157	1,023	-13.0%	157	1,023
Non-Home Based Other Attraction	-13.0%	95	702	-13.0%	95	702
Total		**1,213**	**7,564**		**1,213**	**7,564**
Resedent VMT			2,530			2,530
Resident VMT (percent of total)						0.334479112

52%

Source: Gibson Transportation

The Bloc

SB100 - Renewable Portfolio Standards

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

Build Out Year	Carbon Intensity (lbs/MWh)
2031	332

The Bloc
Electric Vehicle (EV) Modeling Parameters

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

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

LADWP Electricity Emission Factor[1]	0.15	MTCO2E/MWh
Fuel Economy of Electric Vehicle[2]	0.42	kWh/mile
Electric Vehicle GHG Emissions	65.0	grams/mile
GHG Emissions from Residential Miles Traveled (CalEEMod)[3]	290.2	grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	225.3	grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Residential Average Yearly VMT with TDM and PDFs[4]	923,450	miles/year
Percent of Residential Miles Driven in Electric Vehicles due to this Measure	10.0%	
Residential VMT that is Displaced by Evs due to this Measure	92,345	miles/year
GHG Emisisons Reduction from Residential Electric Vehicles	**21**	MTCO2E/MWh

Energy Usage	**38,998**

Notes:
1) CO2 intensity factor reflects a 2028 RPS for LADWP (524 lbs of CO2E/MWh).
2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. Available at: http://afdc.energy.gov/fuels/electricity_benefits.html.
3) CalEEMod Output file provided in Appendix XX.X of this Draft EIR.
4) Residential charging of vehicles would primarily occur over night, while commercial use charging of vehicles would primarily occur during the day. In addition, it is assumed that the charging stations/plugins for residential uses would be fully utlized which is supported by the projected number of electric vehicles in the future. Bloomberg New Energy Finance projects that electric vehicles will represent 35 percent of global new car sales by 2040 (https://about.bnef.com/blog/electric-vehicles-to-be-35-of-global-new-car-sales-by-2040/).

The Bloc - Project (No MXD) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Bloc - Project (No MXD)
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	Air Basin
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	34.047466497954176, -118.25913605847032
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4045
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	466	Dwelling Unit	4.29	447,360	13,600	0.00	1,050	—

Enclosed Parking with Elevator	441	Space	0.00	176,400	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.9	7.12	82.8	0.12	0.10	11.2	11.3	0.09	2.84	2.93	16,394
Mit.	21.9	7.12	82.8	0.12	0.10	11.2	11.3	0.09	2.84	2.93	15,986
% Reduced	—	—	—	—	—	—	—	—	—	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.3	7.15	45.6	0.11	0.07	11.2	11.3	0.07	2.84	2.91	15,768
Mit.	18.3	7.15	45.6	0.11	0.07	11.2	11.3	0.07	2.84	2.91	15,360
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.2	6.15	68.8	0.11	0.09	11.1	11.1	0.08	2.81	2.89	15,740
Mit.	20.2	6.15	68.8	0.11	0.09	11.1	11.1	0.08	2.81	2.89	15,331
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.68	1.12	12.6	0.02	0.02	2.02	2.03	0.01	0.51	0.53	2,606
Mit.	3.68	1.12	12.6	0.02	0.02	2.02	2.03	0.01	0.51	0.53	2,538
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.06	4.06	46.1	0.11	0.06	11.2	11.2	0.06	2.84	2.90	11,776
Area	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	254
Waste	—	—	—	—	—	—	—	—	—	—	470
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	21.9	7.12	82.8	0.12	0.10	11.2	11.3	0.09	2.84	2.93	16,394
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.94	4.40	43.1	0.11	0.06	11.2	11.2	0.06	2.84	2.90	11,253
Area	10.3	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	254
Waste	—	—	—	—	—	—	—	—	—	—	470
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	18.3	7.15	45.6	0.11	0.07	11.2	11.3	0.07	2.84	2.91	15,768

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.87	4.42	44.0	0.11	0.06	11.1	11.1	0.06	2.81	2.87	11,383
Area	12.8	0.21	23.4	< 0.005	0.02	—	0.02	0.01	—	0.01	70.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	254
Waste	—	—	—	—	—	—	—	—	—	—	470
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.54	1.51	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	20.2	6.15	68.8	0.11	0.09	11.1	11.1	0.08	2.81	2.89	15,740
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.25	0.81	8.03	0.02	0.01	2.02	2.03	0.01	0.51	0.52	1,885
Area	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	543
Water	—	—	—	—	—	—	—	—	—	—	42.1
Waste	—	—	—	—	—	—	—	—	—	—	77.9
Refrig.	—	—	—	—	—	—	—	—	—	—	0.53
Stationary	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	3.68	1.12	12.6	0.02	0.02	2.02	2.03	0.01	0.51	0.53	2,606

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	7.06	4.06	46.1	0.11	0.06	11.2	11.2	0.06	2.84	2.90	11,776
Area	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282

Water	—	—	—	—	—	—	—	—	—	—	203
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	21.9	7.12	82.8	0.12	0.10	11.2	11.3	0.09	2.84	2.93	15,986
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.94	4.40	43.1	0.11	0.06	11.2	11.2	0.06	2.84	2.90	11,253
Area	10.3	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	203
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	18.3	7.15	45.6	0.11	0.07	11.2	11.3	0.07	2.84	2.91	15,360
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.87	4.42	44.0	0.11	0.06	11.1	11.1	0.06	2.81	2.87	11,383
Area	12.8	0.21	23.4	< 0.005	0.02	—	0.02	0.01	—	0.01	70.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,282
Water	—	—	—	—	—	—	—	—	—	—	203
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	3.20
Stationary	0.54	1.51	1.38	< 0.005	0.01	—	0.01	0.01	—	0.01	277
Total	20.2	6.15	68.8	0.11	0.09	11.1	11.1	0.08	2.81	2.89	15,331
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.25	0.81	8.03	0.02	0.01	2.02	2.03	0.01	0.51	0.52	1,885
Area	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	543

Water	—	—	—	—	—	—	—	—	—	—	33.7
Waste	—	—	—	—	—	—	—	—	—	—	18.7
Refrig.	—	—	—	—	—	—	—	—	—	—	0.53
Stationary	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	3.68	1.12	12.6	0.02	0.02	2.02	2.03	0.01	0.51	0.53	2,538

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	444
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	99.0
Total	—	—	—	—	—	—	—	—	—	—	543

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598
Total	—	—	—	—	—	—	—	—	—	—	3,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2,684
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	598

Total	—	—	—	—	—	—	—	—	—	—	3,282
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	444
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	99.0
Total	—	—	—	—	—	—	—	—	—	—	543

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

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

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.55	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Total	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Total	10.3	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.75	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Total	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.55	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Total	13.9	0.31	34.2	< 0.005	0.03	—	0.03	0.02	—	0.02	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.57	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—
Total	10.3	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.75	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6
Total	2.33	0.04	4.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	254
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	254
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	254
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	42.1
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	42.1

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	203

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	203
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	203
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	33.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	33.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	470
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	470
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	470
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	470
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	77.9
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	77.9

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	113
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	113

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	18.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	18.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.53
Total	—	—	—	—	—	—	—	—	—	—	0.53

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	3.20
Total	—	—	—	—	—	—	—	—	—	—	3.20
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.53
Total	—	—	—	—	—	—	—	—	—	—	0.53

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Total	0.98	2.75	2.51	< 0.005	0.01	—	0.01	0.01	—	0.01	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.8
Total	0.10	0.28	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	2,797	2,797	2,797	1,020,905	15,773	15,773	15,773	5,757,145

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	2,797	2,797	2,797	1,020,905	15,773	15,773	15,773	5,757,145

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)
905904	301,968	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,921,584	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	651,169	332	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 High Rise	2,921,584	332	0.0489	0.0069	0.00
Enclosed Parking with Elevator	651,169	332	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 High Rise	18,308,488	238,602
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	14,646,790	190,882
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 High Rise	249	—
Enclosed Parking with Elevator	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	59.9	—
Enclosed Parking with Elevator	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 High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	1.00	200	300	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.60	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	50.5

AQ-PM	90.0
AQ-DPM	99.7
Drinking Water	92.5
Lead Risk Housing	33.3
Pesticides	16.6
Toxic Releases	80.3
Traffic	84.6
Effect Indicators	—
CleanUp Sites	74.3
Groundwater	33.0
Haz Waste Facilities/Generators	94.3
Impaired Water Bodies	66.7
Solid Waste	99.5
Sensitive Population	—
Asthma	60.9
Cardio-vascular	15.7
Low Birth Weights	18.2
Socioeconomic Factor Indicators	—
Education	33.5
Housing	38.1
Linguistic	75.2
Poverty	46.6
Unemployment	32.3

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	38.56024637
Employed	92.87822405
Median HI	46.43911202
Education	—
Bachelor's or higher	89.67021686
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	4.837674836
Active commuting	94.84152445
Social	—
2-parent households	13.10150135
Voting	14.78249711
Neighborhood	—
Alcohol availability	4.516874118
Park access	61.10612088
Retail density	99.61503914
Supermarket access	94.25125112
Tree canopy	9.816501989
Housing	—
Homeownership	5.286795842
Housing habitability	24.39368664
Low-inc homeowner severe housing cost burden	88.19453356
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	30.56589247
Health Outcomes	—

Insured adults	48.91569357
Arthritis	88.1
Asthma ER Admissions	36.6
High Blood Pressure	48.4
Cancer (excluding skin)	57.8
Asthma	88.8
Coronary Heart Disease	74.7
Chronic Obstructive Pulmonary Disease	88.0
Diagnosed Diabetes	64.3
Life Expectancy at Birth	92.7
Cognitively Disabled	39.7
Physically Disabled	16.6
Heart Attack ER Admissions	88.8
Mental Health Not Good	77.2
Chronic Kidney Disease	79.8
Obesity	84.3
Pedestrian Injuries	98.2
Physical Health Not Good	77.4
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	43.3
Current Smoker	69.0
No Leisure Time for Physical Activity	64.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0

Elderly	42.6
English Speaking	26.9
Foreign-born	66.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	3.2
Traffic Density	91.2
Traffic Access	87.4
Other Indices	—
Hardship	37.4
Other Decision Support	—
2016 Voting	20.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
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	Carbon Intensity for 2031
Land Use	Population from VMT Calculator 4.285 Acre site
Construction: Construction Phases	see construction assumptions
Construction: Off-Road Equipment	see construction assumptions
Construction: Trips and VMT	see construction assumptions
Operations: Hearths	No Hearths
Operations: Energy Use	All electric
Characteristics: Project Details	South Coast Air Basin
Operations: Generators + Pumps EF	SCAQMD Rule 1470