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Rincon Project No. 23-14483

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Via email: kevin@ravelloholdings.com

**Subject: Air Quality, TAC, and GHG Emissions Analysis for the Maison’s Sierra Project
Lancaster, Los Angeles County, California**

Dear Mr. Harbison:

Rincon Consultants, Inc. (Rincon) is pleased to provide this technical memorandum that has been prepared to assess air quality, toxic air contaminants (TAC), and greenhouse gas (GHG) emissions for the Maison’s Sierra Project (“project” or “proposed project”) to ensure that the project complies with HUD’s NEPA requirements.

This air quality and GHG emissions analysis assesses the air quality impacts from the short-term construction emissions and long-term operational emissions associated with the project and TAC exposure to future residents sited by the project. This analysis also quantifies operational GHG emissions and discusses the project’s consistency with the 2022 California Air Resources Board (CARB) Scoping Plan. Air quality and GHG emissions modeling worksheets are included in Attachment A.

Project Location

The 45.5-acre project site is located in the City of Lancaster in Los Angeles County. The project site is located southwest of the intersection of Sierra Highway and West Avenue H and is currently vacant and undeveloped. The project site is surrounded by the West Avenue H off-ramp and single-family residences to the north; Sierra Highway, vacant and undeveloped land, and a metals service center to the east; Whit Carter Park to the south; and Mariposa Park, Mariposa Computer Science Magnet School, and single-family residences to the west. Figure 1 shows the regional location of the project site and Figure 2 shows the project site and neighboring land uses.

Project Description

The project involves the construction and occupation of a 499-unit housing development¹ that would be 100 percent affordable and multi-generational. Additional site amenities would include a recreation center, pool, spa, tot lot, parks, and walking trails. The residential portion of the project would include all electric appliances and would not consume natural gas. Solar photovoltaic (PV) panels would be

¹ 401 homes and 98 accessory dwelling units (ADUs).



installed on all roofs of the residential units in compliance with the Lancaster Municipal Code. The project would provide at least six electric vehicle (EV) charging stalls.

Construction of the project would commence in March 2024 and would be completed in approximately 24 months. Construction staging and laydown areas would occur within the project site. The project site would be balanced and would not require cut and fill soil.

Air Quality

Background

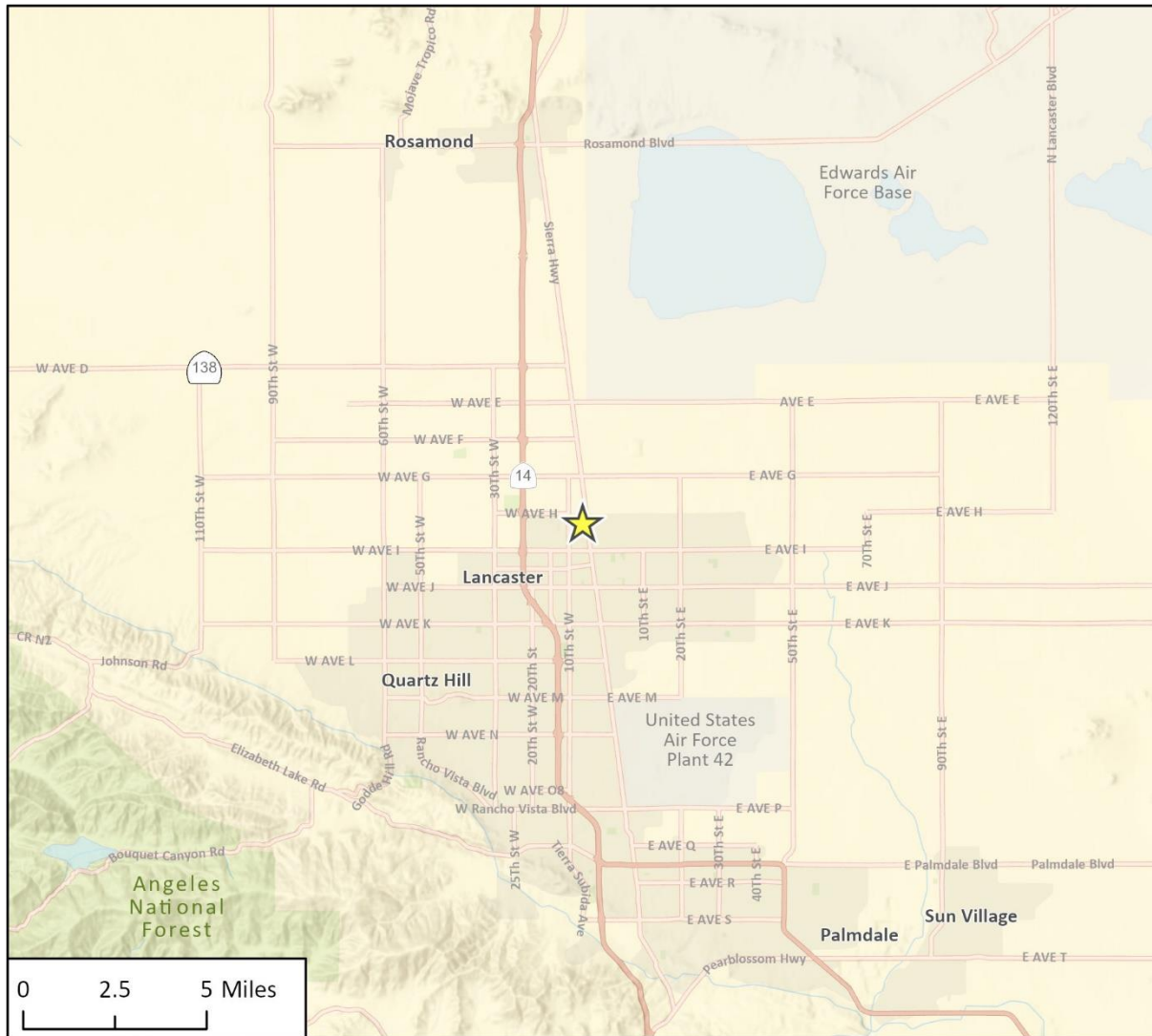
The proposed project is in City of Lancaster, Los Angeles County, and within the western portion of the Mojave Desert Air Basin (MDAB). The MDAB is designated as nonattainment for the federal 8-hour ozone standard (California Air Resources Board [CARB] 2022a). In addition, the MDAB is nonattainment for the state 8-hour ozone and PM₁₀ standards (CARB 2022a). Air quality in the western portion of the MDAB is managed and regulated by the Antelope Valley Air Quality Management District (AVAQMD).

The majority of ozone formation occurs when nitrogen oxides (NO_x), carbon monoxide (CO) and reactive organic gases (ROG), react in the atmosphere in the presence of sunlight. For this reason, NO_x, CO, and ROG are called ozone precursors and are relevant criteria pollutants to evaluate nonattainment areas for ozone.

Ozone is produced by a photochemical reaction (triggered by sunlight) between NO_x and ROG. NO_x is formed during the combustion of fuels, while reactive organic gases are formed during combustion and evaporation of organic solvents. Because ozone requires sunlight to form, it mostly occurs in substantial concentrations between the months of April and October. Ozone is a pungent, colorless, toxic gas with direct health effects on humans, including respiratory and eye irritation and possible changes in lung functions. Groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

Atmospheric particulate matter is comprised of finely divided solids and liquids such as dust, soot, aerosols, fumes, and mists. The particulates that are of particular concern are PM₁₀ and PM_{2.5}. The characteristics, sources, and potential health effects associated with PM₁₀ and PM_{2.5} can be different. Major man-made sources of PM₁₀ are agricultural operations, industrial processes, combustion of fossil fuels, construction, demolition operations, and entrainment of road dust into the atmosphere. Natural sources include windblown dust, wildfire smoke, and sea spray salt. The finer, PM_{2.5} particulates are generally associated with combustion processes as well as being formed in the atmosphere as a secondary pollutant through chemical reactions. PM_{2.5} is more likely to penetrate deeply into the lungs and poses a serious health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the small and fine particulate matter that is inhaled into the lungs remains there, which can cause permanent lung damage.

Figure 1 Regional Location Map



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Fig 1 Regional Location

Project Location

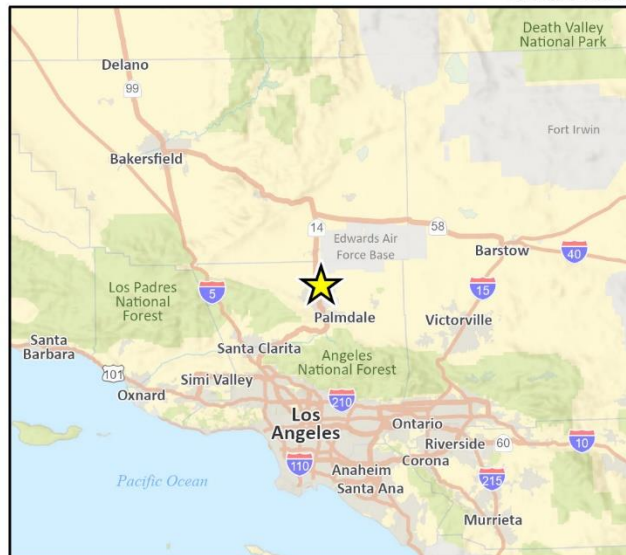


Figure 2 Project Site



Imagery provided by Microsoft Bing and its licensors © 2023.

23-14483 EPS
Fig 2 Project Location



Significance Thresholds

The Code of Federal Regulations (CFR) provides guidance to document Clean Air Act (CAA) Conformity Determination requirements. 40 CFR Part 93.153(b)(2) defines de Minimis levels, which are the minimum thresholds for which a conformity determination must be performed for criteria pollutants based on the federal attainment status of the pollutant in the air basin. The federal de Minimis threshold for ROG and NO_x in nonattainment areas that are classified as marginal is 100 tons per year. In addition, nonattainment areas that are classified as moderate for PM_{2.5} is 100 tons per day. The federal de Minimis level for attainment/maintenance areas for CO, SO₂, and PM₁₀ is 100 tons per year (USEPA 2022). Table 1 presents the *de Minimis* levels for conformity determination for construction and operation activities. The project is subject to the de Minimis threshold to evaluate potential air quality impacts generated by construction and operation of the proposed project. CAA conformity thresholds applicable in the MDAB are 100 tons per year of ozone, PM_{2.5}, CO, SO₂, and PM₁₀. (40 CFR §93.153).

Table 1 Construction and Operational Air Pollution Emissions

Pollutant	Maximum Construction and Operational Emissions (tpy)
	CAA Conformity Threshold
Ozone ¹	100
PM _{2.5}	100
CO	100
SO ₂	100
PM ₁₀	100

¹Highest of ozone precursors emissions (reactive organic gases or nitrogen oxides)
 tpy = tons per year

Methodology

The California Emissions Estimator Model (CalEEMod) version 2022.1 was used to estimate construction and operational emissions (see Attachment A). Construction emissions modeled include emissions generated by on-site construction equipment and vehicle trips associated with construction, such as worker, vendor, and hauling trips. Project construction was analyzed based on the land use type and square footage provided by the applicant. Construction activities would start in March 2024 and end in March 2026. The CalEEMod assumptions for the construction schedule, equipment lists, and vehicle trips were used based on the proposed land uses.

Operational emissions modeled include mobile source emissions and area source emissions. Mobile source emissions are generated by vehicle trips to and from the project site. In addition, consumer products and architectural coatings generate emissions attributed to area source emissions. The residential portion of the project would not consume natural gas energy and would include all electric appliances. The recreation center of the project would consume natural gas energy.



Air Quality Analysis

Construction Emissions

Emissions generated during construction of the project are shown in

Table 2. As shown, emissions generated during project construction would not exceed the de Minimis threshold for ROG, NO_x, PM_{2.5}, CO, SO₂, and PM₁₀.

Table 2 Construction Air Pollution Emissions

Pollutant	Maximum Construction Emissions (tpy)		
	CalEEMod Estimate	CAA Conformity Threshold	Exceed?
ROG	2	100	No
NO _x	3	100	No
PM _{2.5}	<1	100	No
CO	4	100	No
SO ₂	<1	100	No
PM ₁₀	1	100	No

tpy = tons per year

Operational Emissions

Emissions generated during operation of the proposed project are shown in Table 3. As shown, emissions generated during project operation would not exceed the de Minimis threshold for ROG, NO_x, PM_{2.5}, CO, SO₂, and PM₁₀.

Table 3 Annual Operational Air Pollution Emissions

Pollutant	Maximum Operational Emissions (tpy)		
	CalEEMod Estimate	CAA Conformity Threshold	Exceed?
ROG	9	100	No
NO _x	3	100	No
PM _{2.5}	2	100	No
CO	30	100	No
SO ₂	<1	100	No
PM ₁₀	4	100	No

tpy = tons per year



Development of the project would not generate emissions exceeding CAA conformity thresholds for construction and operational activities. The project would be in conformance with the Clean Air Act.

Toxic Air Contaminants

Diesel particulate matter (DPM) exhaust emissions was identified as a TAC by CARB in 1998 (CARB 2022b). CARB suggests an operational health risk assessment be conducted for developments resulting in sensitive receptors being placed within 500 feet of an existing high-volume roadway. A high-volume roadway is defined as an urban roadway with more than 100,000 vehicles per day or a rural roadway with more than 50,000 vehicles per day (CARB 2005). The project would site new sensitive receptors, residential units, within 500 feet of Sierra Highway and West Avenue H. Future average daily traffic (ADT) volumes on Sierra Highway are projected to reach up to 18,000 ADT (City of Lancaster 2008). West Avenue H is a rural road that is adjacent to the project's northern boundary. Future ADT volumes on West Avenue H are projected to reach up to 16,000 ADT (City of Lancaster 2008). ADT volumes on Sierra Highway and West Avenue H would not exceed 50,000 vehicles per day. In addition, the Title 24 standards would require new residential units to include MERV 13 standard air filtration (at a minimum) to reduce PM₁₀ and PM_{2.5} emissions by at least 70 percent. Therefore, new residents sited by the project are not anticipated to be adversely affected by exposure to long-term vehicle exhaust/TACs.

Greenhouse Gas Emissions

Background

Gases that trap heat in the atmosphere are known as GHGs. GHGs allow sunlight to enter the atmosphere but trap a portion of the outward-bound infrared radiation that warms the air. The process is similar to the effect greenhouses have in raising the internal temperature of the structure. Both natural processes and human activities emit GHGs. The accumulation of GHGs in the atmosphere regulates the Earth's temperature, but emissions from human activities (such as fossil fuel-based electricity production and the use of motor vehicles) have elevated the concentration of GHGs in the atmosphere. Scientists agree that this accumulation of GHGs has contributed to an increase in the temperature of the Earth's atmosphere and to global climate change. Global climate change is a change in the average weather on Earth that can be measured by wind patterns, storms, precipitation, and temperature. Although there is disagreement as to the rate of global climate change and the extent of the impacts attributable to human activities, most scientists agree there is a direct link between increased emissions of GHGs and long-term global temperature increases.

The gases widely seen as the principal contributors to human-induced climate change include carbon dioxide (CO₂), methane (CH₄), nitrous oxides (N₂O), fluorinated gases such as hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). Water vapor is excluded from the list of GHGs because it is short-lived in the atmosphere, and natural processes, such as oceanic evaporation, largely determine its atmospheric concentrations.

GHGs are emitted by natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Emissions of CO₂ are usually by-products of fossil fuel combustion, and CH₄ results from off-gassing associated with agricultural practices and landfills. Human-made GHGs, many of which have greater heat-absorption potential than CO₂, include fluorinated gases and SF₆.

Different types of GHGs have varying global warming potentials (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally, 100



years). Because GHGs absorb different amounts of heat, a common reference gas (CO₂) is used to relate the amount of heat absorbed to the amount of the gas emitted, referred to as “carbon dioxide equivalent” (CO₂e), which is the amount of GHG emitted multiplied by its GWP. Carbon dioxide has a 100-year GWP of one. By contrast, methane has a GWP of 30, meaning its global warming effect is 30 times greater than CO₂ on a molecule per molecule basis (IPCC 2021).

Significance Thresholds

Neither HUD, AVAQMD, nor the City of Lancaster have adopted a numerical significance threshold for assessing impacts related to GHG emissions or formally adopted a local plan for reducing GHG emissions. Therefore, it is recommended that the significance of the project’s potential impacts with regard to GHG emissions and climate change be based on consistency with relevant plans and policies adopted for the purposes of reducing GHG emissions and mitigating the effects of climate change. The project’s operational GHG emissions have been quantified for informational purposes but are not compared to a numeric threshold.

In the absence of a local qualified greenhouse gas reduction plan, the state recommends determining whether a proposed residential or mixed-use residential development would align with the 2022 Scoping Plan by assessing if the project is consistent with all the key project attributes identified in Table 3 of Appendix D of the CARB 2022 Scoping Plan. These project attributes are detailed below in Table 4. According to the 2022 Scoping Plan, “projects that have all the key project attributes should accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals” (CARB 2022c). The 2022 Scoping Plan states that, “lead agencies may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State’s climate goals” (CARB 2022c).

Methodology

GHG emissions for project operation were calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1. CalEEMod allows for the use of default data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The operational GHG emission estimates for the project are summarized below and detailed in Attachment A.

GHG Emissions Analysis

2022 Scoping Plan Consistency

The 2022 Scoping Plan Update identifies strategies that are to be implemented at the State and project level that will reduce GHG emissions consistent with State policies with a target of 85 percent below 1990 levels by 2045 which is the equivalent of carbon neutrality by 2045. Table 4 demonstrates how the project would not conflict with the strategies and actions outlined in the 2022 Scoping Plan.



Table 4 Consistency with Applicable 2022 Scoping Plan GHG Emission Reduction Strategies

Strategy/Action	Project Consistency
Actions from Scoping Plan Scenario: Key Residential and Mixed-Use Project Attributes that Reduce GHGs¹	
<p>Transportation Electrification: Provides EV charging infrastructure that, at a minimum, meets the most ambitious voluntary standards in the California Green Building Standards Code at the time of project approval.</p>	<p>No Conflict: The project would install at least six EV charging stalls, which would not meet the most ambitious voluntary standards for EV charging infrastructure.</p> <p>The 2022 Scoping Plan states that “Lead agencies may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State’s climate goals” (CARB 2022). According to the 2022 Scoping Plan, the project would need to include a 20 percent affordable housing. The proposed project includes 100 percent affordable housing units, an 80 percent increase over what is required. The affordable housing nature of the project would result in less trips per dwelling unit in comparison to market rate dwelling units. Thus, VMT generated by the project would be reduced. The 100 percent affordable units coupled with reductions from the residential use of all electric appliances would further reduce emissions. Further, every residential unit would have rooftop solar, which would reduce GHG emissions from energy usage and provide additional sources of renewable energy. Therefore, although the project would not meet the most ambitious voluntary standards for EV charging infrastructure, the project as a whole would be consistent with the overarching goals of the 2022 Scoping Plan.</p>
<p>VMT Reduction: Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)</p>	<p>No Conflict: The project would redevelop previously undeveloped land that is presently served by existing utilities and essential public services.</p>
<p>VMT Reductions: Does not result in the loss or conversion of natural and working lands (NWL).²</p>	<p>No Conflict: The project site is undeveloped land that is not considered NWL. Therefore, the project would not result in the loss or conversion of NWL.</p>
<p>VMT Reduction:</p> <ul style="list-style-type: none"> ▪ Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), or ▪ Is in proximity to existing transit stops (within a half mile), or ▪ Satisfies more detailed and stringent criteria specified in the region’s SCS. 	<p>No Conflict: The project site is within half a mile of the bus stop located at the intersection of Sierra Highway and Avenue I, which is serviced by Antelope Valley Transit Authority Lines 4, 7, 9, and 11.</p>

² Natural and working lands consist of the following categories: forests, shrublands, grasslands, Sacramento-San Joaquin Delta, urban forests, wildland urban interface, annual croplands, perennial croplands and deserts.



Strategy/Action	Project Consistency
<p>VMT Reduction: Reduces parking requirements by:</p> <ul style="list-style-type: none"> ▪ Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or ▪ Providing residential parking supply at a ratio of less than one parking space per dwelling unit; or ▪ For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit. 	<p>No Conflict: The project would not reduce parking requirements.</p> <p>The 2022 Scoping Plan states that “Lead agencies may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State’s climate goals” (CARB 2022). According to the 2022 Scoping Plan, the project would need to include a 20 percent affordable housing. The proposed project includes 100 percent affordable housing units, an 80 percent increase over what is required. The affordable housing nature of the project would result in less trips per dwelling unit in comparison to market rate dwelling units. Thus, VMT generated by the project would be reduced. The 100 percent affordable units coupled with reductions from the residential use of all electric appliances would further reduce emissions. Further, every residential unit would have rooftop solar, which would reduce GHG emissions from energy usage and provide additional sources of renewable energy. Therefore, although the project would not reduce parking requirements, the project as a whole would be consistent with the overarching goals of the 2022 Scoping Plan.</p>
<p>VMT Reduction: At least 20 percent of units included are affordable to lower-income residents.</p>	<p>No Conflict: 100 percent of the residential units would be affordable to lower-income residents.</p>
<p>VMT Reduction: Results in no net loss of existing affordable units.</p>	<p>No Conflict: The project would build 499 new, affordable units on previously undeveloped land. Therefore, the project would increase the supply of affordable units and not result in a net loss of existing affordable units.</p>
<p>Building Decarbonization:</p> <p>Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.</p>	<p>No Conflict: The project would be required to comply with all State (e.g., Title 24) and local plans for the reduction of GHGs. The project would be all-electric for residential development. This would accelerate the all-electric requirements for the project beyond what is identified in the 2022 Scoping Plan with respect to residential electrification.</p> <p>While the proposed non-residential development, the recreation center, would be encouraged to be electric only, based on the nature of the uses, natural gas would be necessary. Therefore, natural gas usage was assumed for non-residential development.</p> <p>The 2022 Scoping Plan states that “Lead agencies may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State’s climate goals” (CARB 2022). According to the 2022 Scoping Plan, the project would need to include a 20 percent affordable housing. The proposed project includes 100 percent affordable housing units, an 80 percent increase over what</p>



Strategy/Action	Project Consistency
	<p>is required. The affordable housing nature of the project would result in less trips per dwelling unit in comparison to market rate dwelling units. The 100 percent affordable units coupled with reductions from the residential s use of all electric appliances would further reduce emissions. Therefore, although the non-residential portion of the project would include natural gas, the project as a whole would be consistent with the overarching goals of the 2022 Scoping Plan.</p>

¹ Taken from Table 3 in Appendix D of the Scoping Plan
 Source: CARB 2022c

GHG Emissions Generation

GHG emissions are provided for informational purposes. Operation of the project would generate GHG emissions associated with area sources, energy and water usage, vehicle trips, wastewater and solid waste generation, and refrigerants. Operational GHG emissions associated with the project are shown in

Table 5. As shown therein, annual operational emissions from the project would be approximately 6,548 MT of CO₂e per year.

Table 5 Annual Operational Emissions of Greenhouse Gases

Emission Source	Annual Emissions (MT CO ₂ e)
Mobile	3,880
Area	119
Energy	2,228
Water	177
Solid Waste	142
Refrigerants	1
Total	6,548

MT CO₂e = metric tons of carbon dioxide equivalent
 Source: Attachment A for CalEEMod worksheets.



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Attachment A

California Emissions Estimator Model (CalEEMod) Files

Maison's Sierra Detailed Report

Table of Contents

1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year, Unmitigated
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
3. Construction Emissions Details
 - 3.1. Site Preparation (2024) - Unmitigated
 - 3.3. Grading (2024) - Unmitigated
 - 3.5. Building Construction (2024) - Unmitigated
 - 3.7. Building Construction (2025) - Unmitigated

3.9. Building Construction (2026) - Unmitigated

3.11. Paving (2026) - Unmitigated

3.13. Architectural Coating (2025) - Unmitigated

3.15. Architectural Coating (2026) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Maison's Sierra
Construction Start Date	3/1/2024
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	13.0
Location	34.71560399471906, -118.1425542535577
County	Los Angeles-Mojave Desert
City	Lancaster
Air District	Antelope Valley AQMD
Air Basin	Mojave Desert
TAZ	3695
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.16

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Single Family Housing	499	Dwelling Unit	45.5	973,050	5,844,716	0.00	1,532	—
Health Club	3.62	1000sqft	0.08	3,624	0.00	0.00	—	—
Health Club	4.40	1000sqft	0.10	4,400	0.00	0.00	—	—
Recreational Swimming Pool	0.60	1000sqft	0.01	600	0.00	0.00	—	—
City Park	3.67	Acre	3.67	0.00	159,910	159,910	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.46	3.75	36.1	34.8	0.06	1.60	7.89	9.49	1.47	3.99	5.47	—	6,893	6,893	0.28	0.36	16.2	6,920
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.44	221	36.1	34.2	0.05	1.60	7.89	9.49	1.47	3.99	5.47	—	7,002	7,002	0.25	0.36	0.46	7,116
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.17	13.5	16.0	19.8	0.03	0.67	2.77	3.44	0.61	1.14	1.76	—	4,638	4,638	0.16	0.25	4.80	4,720
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40	2.47	2.91	3.61	0.01	0.12	0.51	0.63	0.11	0.21	0.32	—	768	768	0.03	0.04	0.79	781

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.46	3.75	36.1	34.8	0.06	1.60	7.89	9.49	1.47	3.99	5.47	—	6,893	6,893	0.28	0.36	16.2	6,920
2025	2.55	2.24	13.2	31.9	0.04	0.46	2.86	3.32	0.42	0.69	1.11	—	6,690	6,690	0.21	0.34	15.4	6,813
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.44	3.74	36.1	34.2	0.05	1.60	7.89	9.49	1.47	3.99	5.47	—	6,470	6,470	0.23	0.36	0.42	6,582
2025	2.81	221	14.5	29.6	0.04	0.48	3.34	3.83	0.45	0.80	1.25	—	7,002	7,002	0.25	0.36	0.46	7,116
2026	2.69	221	13.7	28.5	0.04	0.43	3.34	3.77	0.38	0.80	1.19	—	6,916	6,916	0.24	0.36	0.42	7,030
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.17	1.85	16.0	18.5	0.03	0.67	2.77	3.44	0.61	1.14	1.76	—	3,753	3,753	0.14	0.10	1.84	3,789
2025	1.77	8.82	9.62	19.8	0.03	0.33	2.04	2.37	0.30	0.49	0.80	—	4,638	4,638	0.16	0.25	4.80	4,720
2026	0.27	13.5	1.64	3.05	< 0.005	0.06	0.22	0.28	0.06	0.05	0.11	—	608	608	0.02	0.02	0.45	616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.40	0.34	2.91	3.38	0.01	0.12	0.51	0.63	0.11	0.21	0.32	—	621	621	0.02	0.02	0.31	627
2025	0.32	1.61	1.76	3.61	< 0.005	0.06	0.37	0.43	0.06	0.09	0.15	—	768	768	0.03	0.04	0.79	781
2026	0.05	2.47	0.30	0.56	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	101	101	< 0.005	< 0.005	0.07	102

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	56.1	65.1	17.5	289	0.62	16.3	20.4	36.6	15.7	5.17	20.9	2,994	39,640	42,634	43.4	1.48	115	44,276
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	49.7	58.8	18.5	234	0.59	16.3	20.4	36.6	15.7	5.17	20.8	2,994	37,402	40,396	43.5	1.54	9.81	41,954
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	31.2	50.0	17.2	167	0.31	3.81	19.6	23.5	3.67	4.99	8.66	892	37,310	38,202	33.7	1.53	52.4	39,551
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.69	9.13	3.13	30.4	0.06	0.70	3.59	4.28	0.67	0.91	1.58	148	6,177	6,325	5.57	0.25	8.68	6,548

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	28.2	26.8	15.3	147	0.25	0.19	20.4	20.5	0.18	5.17	5.35	—	25,244	25,244	1.50	1.29	108	25,773
Area	27.9	38.2	2.12	141	0.37	16.1	—	16.1	15.5	—	15.5	2,712	77.2	2,789	12.7	< 0.005	—	3,106
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	13,408	13,408	0.83	0.10	—	13,459
Water	—	—	—	—	—	—	—	—	—	—	—	36.6	910	947	3.81	0.10	—	1,071
Waste	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	24.6	0.00	—	860
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.01	7.01
Total	56.1	65.1	17.5	289	0.62	16.3	20.4	36.6	15.7	5.17	20.9	2,994	39,640	42,634	43.4	1.48	115	44,276

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.6	23.2	16.6	122	0.23	0.19	20.4	20.5	0.18	5.17	5.35	—	23,084	23,084	1.63	1.35	2.80	23,529
Area	25.1	35.6	1.84	113	0.37	16.1	—	16.1	15.5	—	15.5	2,712	0.00	2,712	12.7	0.00	—	3,029
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	13,408	13,408	0.83	0.10	—	13,459
Water	—	—	—	—	—	—	—	—	—	—	—	36.6	910	947	3.81	0.10	—	1,071
Waste	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	24.6	0.00	—	860
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.01	7.01
Total	49.7	58.8	18.5	234	0.59	16.3	20.4	36.6	15.7	5.17	20.8	2,994	37,402	40,396	43.5	1.54	9.81	41,954
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.1	22.8	16.5	127	0.23	0.19	19.6	19.8	0.18	4.99	5.17	—	22,954	22,954	1.61	1.33	45.4	23,436
Area	7.01	27.3	0.55	39.4	0.08	3.62	—	3.62	3.49	—	3.49	609	38.1	647	2.85	< 0.005	—	719
Energy	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	13,408	13,408	0.83	0.10	—	13,459
Water	—	—	—	—	—	—	—	—	—	—	—	36.6	910	947	3.81	0.10	—	1,071
Waste	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	24.6	0.00	—	860
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.01	7.01
Total	31.2	50.0	17.2	167	0.31	3.81	19.6	23.5	3.67	4.99	8.66	892	37,310	38,202	33.7	1.53	52.4	39,551
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.40	4.15	3.01	23.2	0.04	0.03	3.59	3.62	0.03	0.91	0.94	—	3,800	3,800	0.27	0.22	7.52	3,880
Area	1.28	4.98	0.10	7.19	0.02	0.66	—	0.66	0.64	—	0.64	101	6.31	107	0.47	< 0.005	—	119
Energy	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2,220	2,220	0.14	0.02	—	2,228
Water	—	—	—	—	—	—	—	—	—	—	—	6.06	151	157	0.63	0.02	—	177
Waste	—	—	—	—	—	—	—	—	—	—	—	40.7	0.00	40.7	4.07	0.00	—	142
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.16	1.16
Total	5.69	9.13	3.13	30.4	0.06	0.70	3.59	4.28	0.67	0.91	1.58	148	6,177	6,325	5.57	0.25	8.68	6,548

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement:	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement:	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.66	6.50	5.95	0.01	0.29	—	0.29	0.27	—	0.27	—	958	958	0.04	0.01	—	961

Dust From Material Movement:	—	—	—	—	—	—	1.39	1.39	—	0.71	0.71	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	1.19	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	159	159	0.01	< 0.005	—	159
Dust From Material Movement:	—	—	—	—	—	—	0.25	0.25	—	0.13	0.13	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.11	1.85	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	258	258	0.01	0.01	1.09	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.10	0.09	0.12	1.26	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	229	229	0.01	0.01	0.03	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.6	42.6	< 0.005	< 0.005	0.09	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.06	7.06	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.73	0.62	6.01	5.29	0.01	0.25	—	0.25	0.23	—	0.23	—	1,157	1,157	0.05	0.01	—	1,161
Dust From Material Movement	—	—	—	—	—	—	0.63	0.63	—	0.25	0.25	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.13	0.11	1.10	0.97	< 0.005	0.05	—	0.05	0.04	—	0.04	—	192	192	0.01	< 0.005	—	192
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.14	0.12	0.12	2.12	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	295	295	0.01	0.01	1.25	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.02	0.28	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.3	47.3	< 0.005	< 0.005	0.09	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.82	7.82	< 0.005	< 0.005	0.02	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

3.5. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.34	0.28	2.66	3.11	0.01	0.12	—	0.12	0.11	—	0.11	—	568	568	0.02	< 0.005	—	570
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.0	94.0	< 0.005	< 0.005	—	94.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.26	1.09	1.13	19.4	0.00	0.00	2.40	2.40	0.00	0.56	0.56	—	2,702	2,702	0.12	0.09	11.4	—
Vendor	0.06	0.06	1.75	0.68	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,671	1,671	< 0.005	0.24	4.79	—

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	1.09	0.99	1.21	13.2	0.00	0.00	2.40	2.40	0.00	0.56	0.56	—	2,400	2,400	0.12	0.09	0.30	—	
Vendor	0.06	0.05	1.85	0.70	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,673	1,673	< 0.005	0.24	0.12	—	
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.26	0.24	0.31	3.49	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	585	585	0.03	0.02	1.17	—	
Vendor	0.01	0.01	0.44	0.16	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	396	396	< 0.005	0.06	0.49	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.05	0.04	0.06	0.64	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.8	96.8	< 0.005	< 0.005	0.19	—	
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.5	65.5	< 0.005	0.01	0.08	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	

3.7. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.14	1.05	1.04	18.2	0.00	0.00	2.40	2.40	0.00	0.56	0.56	—	2,650	2,650	0.11	0.09	10.7	—
Vendor	0.06	0.06	1.68	0.64	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,642	1,642	< 0.005	0.23	4.77	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.05	0.95	1.13	12.3	0.00	0.00	2.40	2.40	0.00	0.56	0.56	—	2,355	2,355	0.12	0.09	0.28	—
Vendor	0.06	0.05	1.77	0.66	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,644	1,644	< 0.005	0.23	0.12	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.76	0.69	0.86	9.85	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,731	1,731	0.09	0.06	3.30	—
Vendor	0.04	0.04	1.26	0.47	0.01	0.02	0.33	0.35	0.02	0.09	0.11	—	1,174	1,174	< 0.005	0.17	1.47	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.16	1.80	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	287	287	0.01	0.01	0.55	—
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	194	194	< 0.005	0.03	0.24	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.06	0.58	0.76	< 0.005	0.02	—	0.02	0.02	—	0.02	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	1.01	0.84	1.05	11.5	0.00	0.00	2.40	2.40	0.00	0.56	0.56	—	2,310	2,310	0.12	0.09	0.26	—	
Vendor	0.06	0.04	1.70	0.63	0.01	0.02	0.47	0.49	0.01	0.13	0.14	—	1,614	1,614	< 0.005	0.23	0.11	—	
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.05	0.07	0.76	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	139	139	0.01	0.01	0.25	—	
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.7	94.7	< 0.005	0.01	0.11	—	
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.1	23.1	< 0.005	< 0.005	0.04	—	
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.02	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	

3.11. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
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	—	0.00	0.00	0.00	0.00	0.00	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.82	1.14	< 0.005	0.04	—	0.04	0.03	—	0.03	—	174	174	0.01	< 0.005	—	174
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	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
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	—	0.00	0.00	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.94	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	0.01	0.01	0.02	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.4	22.4	< 0.005	< 0.005	0.04	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.70	3.70	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

3.13. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	219	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.44	4.44	< 0.005	< 0.005	—	4.46
Architect ural Coatings	—	7.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.74	0.74	< 0.005	< 0.005	—	0.74	—
Architectural Coatings	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.19	0.23	2.46	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	471	471	0.02	0.02	0.06	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.03	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.67	2.67	< 0.005	< 0.005	0.01	—	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—

3.15. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	219	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.10	8.10	< 0.005	< 0.005	—	8.13
Architect ural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.34	1.34	< 0.005	< 0.005	—	1.35
Architect ural Coatings	—	2.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.20	0.17	0.21	2.30	0.00	0.00	0.48	0.48	0.00	0.11	0.11	—	462	462	0.02	0.02	0.05	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.8	28.8	< 0.005	< 0.005	0.05	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	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

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	26.6	25.3	14.4	138	0.23	0.18	19.1	19.3	0.17	4.85	5.03	—	23,715	23,715	1.41	1.21	101	24,213
Health Club	1.49	1.41	0.83	8.06	0.01	0.01	1.13	1.14	0.01	0.29	0.30	—	1,395	1,395	0.08	0.07	5.98	1,424
Recreational Swimming Pool	0.10	0.09	0.05	0.53	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	91.3	91.3	0.01	< 0.005	0.39	93.2
City Park	0.05	0.04	0.03	0.25	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	42.4	42.4	< 0.005	< 0.005	0.18	43.3
Total	28.2	26.8	15.3	147	0.25	0.19	20.4	20.5	0.18	5.17	5.35	—	25,244	25,244	1.50	1.29	108	25,773
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	23.1	21.8	15.6	114	0.21	0.18	19.1	19.3	0.17	4.85	5.03	—	21,686	21,686	1.54	1.27	2.63	22,104
Health Club	1.30	1.22	0.90	6.61	0.01	0.01	1.13	1.14	0.01	0.29	0.30	—	1,276	1,276	0.09	0.07	0.16	1,300
Recreational Swimming Pool	0.08	0.08	0.06	0.43	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	83.5	83.5	0.01	< 0.005	0.01	85.1
City Park	0.04	0.04	0.03	0.20	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	38.8	38.8	< 0.005	< 0.005	< 0.005	39.5
Total	24.6	23.2	16.6	122	0.23	0.19	20.4	20.5	0.18	5.17	5.35	—	23,084	23,084	1.63	1.35	2.80	23,529
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.17	3.93	2.85	21.9	0.04	0.03	3.38	3.42	0.03	0.86	0.89	—	3,586	3,586	0.25	0.21	7.09	3,662
Health Club	0.22	0.21	0.16	1.20	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	199	199	0.01	0.01	0.39	203

Recreational Swimming Pool	0.01	0.01	0.01	0.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.02	11.9
City Park	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	0.01	3.52
Total	4.40	4.15	3.01	23.2	0.04	0.03	3.59	3.62	0.03	0.91	0.94	—	3,800	3,800	0.27	0.22	7.52	3,880

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	13,186	13,186	0.82	0.10	—	13,236
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	112	112	0.01	< 0.005	—	113
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,298	13,298	0.82	0.10	—	13,348
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	13,186	13,186	0.82	0.10	—	13,236

Health Club	—	—	—	—	—	—	—	—	—	—	—	—	112	112	0.01	< 0.005	—	113
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13,298	13,298	0.82	0.10	—	13,348
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,183	2,183	0.14	0.02	—	2,191
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	18.6	18.6	< 0.005	< 0.005	—	18.6
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,202	2,202	0.14	0.02	—	2,210

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Health Club	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.3
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.3

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	25.1	12.4	1.84	113	0.37	16.1	—	16.1	15.5	—	15.5	2,712	0.00	2,712	12.7	0.00	—	3,029
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.80	2.65	0.28	28.6	< 0.005	0.01	—	0.01	0.02	—	0.02	—	77.2	77.2	< 0.005	< 0.005	—	77.5
Total	27.9	38.2	2.12	141	0.37	16.1	—	16.1	15.5	—	15.5	2,712	77.2	2,789	12.7	< 0.005	—	3,106
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	25.1	12.4	1.84	113	0.37	16.1	—	16.1	15.5	—	15.5	2,712	0.00	2,712	12.7	0.00	—	3,029
Consumer Products	—	21.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	25.1	35.6	1.84	113	0.37	16.1	—	16.1	15.5	—	15.5	2,712	0.00	2,712	12.7	0.00	—	3,029
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.03	0.51	0.08	4.62	0.02	0.66	—	0.66	0.63	—	0.63	101	0.00	101	0.47	0.00	—	113
Consumer Products	—	3.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.24	0.03	2.57	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.31	6.31	< 0.005	< 0.005	—	6.33
Total	1.28	4.98	0.10	7.19	0.02	0.66	—	0.66	0.64	—	0.64	101	6.31	107	0.47	< 0.005	—	119

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	35.6	870	906	3.71	0.09	—	1,026
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.91	3.98	4.89	0.09	< 0.005	—	7.90
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.07	0.30	0.37	0.01	< 0.005	—	0.59

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	35.5	35.5	< 0.005	< 0.005	—	35.7
Total	—	—	—	—	—	—	—	—	—	—	—	36.6	910	947	3.81	0.10	—	1,071
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	35.6	870	906	3.71	0.09	—	1,026
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.91	3.98	4.89	0.09	< 0.005	—	7.90
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.07	0.30	0.37	0.01	< 0.005	—	0.59
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	35.5	35.5	< 0.005	< 0.005	—	35.7
Total	—	—	—	—	—	—	—	—	—	—	—	36.6	910	947	3.81	0.10	—	1,071
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.90	144	150	0.61	0.02	—	170
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.15	0.66	0.81	0.02	< 0.005	—	1.31
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.01	0.05	0.06	< 0.005	< 0.005	—	0.10
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	5.88	5.88	< 0.005	< 0.005	—	5.90
Total	—	—	—	—	—	—	—	—	—	—	—	6.06	151	157	0.63	0.02	—	177

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	219	0.00	219	21.9	0.00	—	766
Health Club	—	—	—	—	—	—	—	—	—	—	—	24.6	0.00	24.6	2.46	0.00	—	86.2
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	1.84	0.00	1.84	0.18	0.00	—	6.45
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	24.6	0.00	—	860
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	219	0.00	219	21.9	0.00	—	766
Health Club	—	—	—	—	—	—	—	—	—	—	—	24.6	0.00	24.6	2.46	0.00	—	86.2
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	1.84	0.00	1.84	0.18	0.00	—	6.45
City Park	—	—	—	—	—	—	—	—	—	—	—	0.17	0.00	0.17	0.02	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	246	0.00	246	24.6	0.00	—	860

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	36.3	0.00	36.3	3.62	0.00	—	127
Health Club	—	—	—	—	—	—	—	—	—	—	—	4.08	0.00	4.08	0.41	0.00	—	14.3
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.31	0.00	0.31	0.03	0.00	—	1.07
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.10
Total	—	—	—	—	—	—	—	—	—	—	—	40.7	0.00	40.7	4.07	0.00	—	142

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.01	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.01	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.15	1.15
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.16	1.16

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/1/2024	5/31/2024	5.00	66.0	—
Grading	Grading	6/4/2024	8/31/2024	5.00	64.0	—
Building Construction	Building Construction	9/2/2024	1/30/2026	5.00	370	—
Paving	Paving	2/2/2026	3/31/2026	5.00	42.0	—
Architectural Coating	Architectural Coating	12/15/2025	1/31/2026	5.00	35.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	183	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	54.8	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	36.7	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	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	1,970,426	656,809	12,036	4,012	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	99.0	0.00	—
Grading	—	—	192	0.00	—
Paving	0.00	0.00	0.00	0.00	5.50

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	5.50	0%
Health Club	0.00	0%
Health Club	0.00	0%
Recreational Swimming Pool	0.00	0%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

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
Single Family Housing	4,711	4,760	4,266	1,698,799	26,703	26,985	24,185	9,629,907
Health Club	119	75.6	96.9	40,108	719	456	583	241,570
Health Club	145	91.8	118	48,696	873	553	708	293,297
Recreational Swimming Pool	17.3	5.46	8.16	5,218	104	32.9	49.1	31,431
City Park	2.86	7.19	8.04	1,540	17.2	43.3	48.4	9,278

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	20
Conventional Wood Stoves	0
Catalytic Wood Stoves	25
Non-Catalytic Wood Stoves	25
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1970426.25	656,809	12,036	4,012	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

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)
Single Family Housing	9,046,933	532	0.0330	0.0040	0.00
Health Club	34,764	532	0.0330	0.0040	155,114
Health Club	42,208	532	0.0330	0.0040	188,329
Recreational Swimming Pool	0.00	532	0.0330	0.0040	0.00
City Park	0.00	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	18,599,626	115,613,188
Health Club	214,335	0.00
Health Club	260,230	0.00
Recreational Swimming Pool	35,486	0.00
City Park	0.00	5,751,179

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	406	—
Health Club	20.7	—

Health Club	25.1	—
Recreational Swimming Pool	3.42	—
City Park	0.32	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	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
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	35.5	annual days of extreme heat
Extreme Precipitation	1.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	88.7
AQ-PM	7.19
AQ-DPM	23.0
Drinking Water	53.1
Lead Risk Housing	85.7
Pesticides	0.00
Toxic Releases	87.9
Traffic	17.7
Effect Indicators	—
CleanUp Sites	60.4
Groundwater	16.8
Haz Waste Facilities/Generators	83.4
Impaired Water Bodies	0.00
Solid Waste	70.9
Sensitive Population	—
Asthma	99.3
Cardio-vascular	92.6

Low Birth Weights	99.0
Socioeconomic Factor Indicators	—
Education	72.5
Housing	61.5
Linguistic	52.0
Poverty	89.5
Unemployment	79.7

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	7.891697677
Employed	1.385859104
Median HI	17.1435904
Education	—
Bachelor's or higher	8.995252149
High school enrollment	100
Preschool enrollment	11.45900167
Transportation	—
Auto Access	19.3763634
Active commuting	8.097010137
Social	—
2-parent households	13.90991916
Voting	39.25317593
Neighborhood	—
Alcohol availability	37.81598871

Park access	8.353650712
Retail density	86.26972924
Supermarket access	2.399589375
Tree canopy	20.76222251
Housing	—
Homeownership	43.62889773
Housing habitability	42.4996792
Low-inc homeowner severe housing cost burden	52.0082125
Low-inc renter severe housing cost burden	26.31849095
Uncrowded housing	53.4838958
Health Outcomes	—
Insured adults	19.59450789
Arthritis	47.0
Asthma ER Admissions	1.1
High Blood Pressure	39.5
Cancer (excluding skin)	68.9
Asthma	13.4
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	17.9
Diagnosed Diabetes	25.3
Life Expectancy at Birth	3.3
Cognitively Disabled	22.1
Physically Disabled	68.4
Heart Attack ER Admissions	1.1
Mental Health Not Good	13.3
Chronic Kidney Disease	27.1
Obesity	13.8

Pedestrian Injuries	91.9
Physical Health Not Good	17.6
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	57.0
Current Smoker	10.6
No Leisure Time for Physical Activity	23.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	69.7
Elderly	70.0
English Speaking	41.3
Foreign-born	31.1
Outdoor Workers	16.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	58.9
Traffic Density	24.9
Traffic Access	23.0
Other Indices	—
Hardship	83.1
Other Decision Support	—
2016 Voting	8.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	86.0

Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Adjusted to remove demo phase; no demo occurring
Operations: Energy Use	Residential is all electric
Operations: Hearths	No fireplaces
Land Use	Per project plans: 401 homes, 98 ADUs, 45.5 acres. Population per household of 3.07 (DOF), 1,532 new residents.