# Appendix A

## Air Quality, Greenhouse, and Energy Letter Report for Tamarisk 2 Apartments in Hesperia, CA; Assessor's Parcel Number 3057-121-08-0000

Yorke Engineering

October 15, 2024

October 15, 2024

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**Subject: Air Quality, Greenhouse, and Energy Letter Report for Tamarisk 2 Apartments in Hesperia, CA; Assessor's Parcel Number 3057-121-08-0000**

Dear Mr. Maida:

Yorke Engineering, LLC (Yorke) is pleased to provide this Air Quality (AQ), Greenhouse Gas (GHG), and Energy Letter Report. This report includes California Emissions Estimator Model® (CalEEMod) emissions estimates, criteria pollutant analyses, and GHG analyses for the proposed residential development in Hesperia, California. These evaluations will support the Applicant's submittal of a California Environmental Quality Act (CEQA) Initial Study (IS)or a Mitigated Negative Declaration (MND), as applicable.

## PROJECT DESCRIPTION

Maida Holdings is proposing to develop an apartment complex to be located on a 4.91 gross acre site in Assessor's Parcel Number 3057-121-08-0000 within Hesperia, CA (the City). The Project Site is located north of Orange Street and west of Tamarisk Avenue. The City is located within the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD), which implements regulations and programs to reduce air pollution and assist the region in attaining ambient air quality standards, and provides guidance on CEQA air quality studies. The proposed apartment complex will include eight two-story eightplex multi-tenant dwellings (8 units per building) for a total of 64 residential units and a single-story clubhouse.

A total of 160 parking spaces will be provided. Since the construction will be on vacant and generally flat desert land, site preparation and grading activities are expected to be nominal. In order to fulfill City land entitlement requirements, an air quality and GHGimpact study is required.

## REGULATORY BACKGROUND

### *Pollutants and Standards*

The U.S. Environmental Protection Agency (USEPA) defines seven "criteria" air pollutants: ozone ($O_3$), carbon monoxide (CO), nitrogen dioxide ($NO_2$), sulfur dioxide ($SO_2$), respirable particulate matter with a diameter of 10 microns or less ($PM_{10}$), fine particulate matter with a diameter of 2.5 microns or less ($PM_{2.5}$), and lead. These pollutants are called criteria pollutants because the USEPA has established National Ambient Air Quality Standards (NAAQS) for the concentrations of these pollutants. The California Air Resources Board (CARB) has also established standards

for the criteria pollutants, known as California Ambient Air Quality Standards (CAAQS), and the State standards are generally more restrictive than the NAAQS. When a region has air quality that fails to meet the standards, the USEPA and the CARB designate the region as "nonattainment" and the regional air quality agency must develop plans to attain the standards. Table 1 shows the attainment status of the MDAQMD. As identified in Table 1, the air basin is a nonattainment area for $O_3$, $PM_{10}$, and $PM_{2.5}$.

**Table 1: MDAQMD Attainment Status**

| Pollutant | Averaging Time | California Standards | | Federal Standards | |
|---|---|---|---|---|---|
| | | Concentration | Attainment Status | Concentration | Attainment Status |
| **Ozone ($O_3$)** | 1 Hour | 0.09 ppm (180 µg/m$^3$) | Non-attainment | - | Non-attainment* |
| | 8 Hour | 0.070 ppm (137 µg/m$^3$) | | 0.070 ppm (137 µg/m$^3$) | |
| **Respirable Particulate Matter ($PM_{10}$)** | 24 Hour | 50 µg/m$^3$ | Non-attainment | 150 µg/m$^3$ | Non-attainment*** |
| | Annual Arithmetic Mean | 20 µg/m$^3$ | | - | |
| **Fine Particulate Matter ($PM_{2.5}$)** | 24 Hour | No State Standard | | 35 µg/m$^3$ | Unclassified/ Attainment |
| | Annual Arithmetic Mean | 12 µg/m$^3$ | Non-attainment* | 12 µg/m$^3$ | |
| **Carbon Monoxide (CO)** | 8 Hour | 9.0 ppm (10 mg/m$^3$) | Attainment | 9 ppm (10 mg/m$^3$) | Unclassified/ Attainment |
| | 1 Hour | 20 ppm (23 mg/m$^3$) | | 35 ppm (40 mg/m$^3$) | |
| **Nitrogen Dioxide ($NO_2$)** | Annual Arithmetic Mean | 0.030 ppb (57 µg/m$^3$) | Attainment | 0.053 ppm (100 µg/m$^3$) | Unclassified/ Attainment |
| | 1 Hour | 0.18 ppm (330 µg/m$^3$) | | 100 ppm (196 µg/m$^3$) | |
| **Sulfur Dioxide ($SO_2$)** | Annual Arithmetic Mean | - | Attainment | 0.030 ppm (80 µg/m$^3$) | Unclassified/ Attainment |
| | 24 Hour | 0.04 ppm (105 µg/m$^3$) | | 0.14 ppm (365 µg/m$^3$) | |
| | 3 Hour | - | | 0.5 ppm (1300 µg/m$^3$) | |
| | 1 Hour | 0.25 ppm (655 µg/m$^3$) | | 75 ppb (196 µg/m$^3$) | |
| **Lead (Pb)** | 30 Day Average | 1.5 µg/m$^3$ | Attainment | - | Unclassified/ Attainment |
| | Calendar Quarter | - | | 1.5 µg/m$^3$ | |
| | Rolling 3-Month Average | - | | 0.15 µg/m$^3$ | |
| **Visibility Reducing Particles** | 8 Hour | Extinction Coefficient of 0.24 per kilometer - visibility of ten miles or more due to particles when relative humidity is less than 70 percent | Unclassified | No Federal Standards | |
| **Sulfates** | 24 Hour | 25 µg/m$^3$ | Attainment | | |
| **Hydrogen Sulfide** | 1 Hour | 0.03 ppm (42 µg/m$^3$) | Non-attainment** | | |
| **Vinyl Chloride** | 24 Hour | 0.01 ppm (26 µg/m$^3$) | Unclassified | | |

*Southwest corner of desert portion of San Bernardino County only
**Searles Valley (northwest corner of San Bernardino County) only
***San Bernardino County portion only

## SIGNIFICANCE THRESHOLDS

Based on the MDAQMD's CEQA Guidelines, any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient (MDAQMD 2020):

1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table 2;
2. Generates a violation of any ambient air quality standard when added to the local background;
3. Does not conform with the applicable attainment or maintenance plan(s);
4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.

## AIR QUALITY AND GREENHOUSE GAS IMPACTS ANALYSES

To evaluate the potential for Air Quality and Greenhouse Gas impacts of a proposed project, quantitative significance criteria established by the local air quality agency, such as the MDAQMD, may be relied upon to make significance determinations based on mass emissions of criteria pollutants and GHGs, as presented in this report.

### Project Emissions Estimation

The construction and operation analysis were performed using the California Emissions Estimator Model (CalEEMod Version 2022.1.1.28), the official statewide land use computer model designed to provide a uniform platform for estimating potential criteria pollutant and GHG emissions associated with both construction and operations of land use projects under CEQA. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The mobile source emission factors used in the model – published by the California Air Resources Board (CARB) – include the Pavley standards and Low Carbon Fuel standards. The model also identifies project design features, regulatory measures, and control measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from the selected measures. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the South Coast Air Quality Management District (SCAQMD), the Bay Area Air Quality Management District (BAAQMD), the San Joaquin Valley Air Pollution Control District (SJVAPCD), and other California air districts. Default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) were provided by the various California air districts to account for local requirements and conditions. As the official assessment methodology for land use projects in California, CalEEMod is relied upon herein for construction and operational emissions quantification, which forms the basis for the impact analysis.

The MDAQMD quantitative significance thresholds shown in Table 2 were used to evaluate project emissions impacts (MDAQMD 2020).

| Table 2: MDAQMD CEQA Thresholds of Significance | | |
|---|---|---|
| Pollutant | Annual Threshold | Daily Threshold |
| | tons/year (MT/year) | Pounds/day (lbs/day) |
| VOC | 25 | 137 |
| $NO_X$ | 25 | 137 |
| CO | 100 | 548 |
| $SO_X$ | 25 | 137 |
| $PM_{10}$ | 15 | 82 |
| $PM_{2.5}$ | 12 | 65 |
| $H_2S$ | 10 | 54 |
| Lead (Pb) | 0.6 | 3 |
| GHG ($CO_2e$) | 100,000 (90,720) | 548,000 |

Source: MDAQMD 2020

### *Criteria Pollutants from Project Construction*

Air pollutant emissions would occur from construction equipment exhaust; fugitive dust from site grading; exhaust and particulate emissions from trucks hauling and construction debris, soil and materials to and from the Project site and from vehicles driven to and from the Project site by construction workers; and VOCs from painting and asphalt paving operations. Project construction would be required to comply with rules such as MDAQMD Rule 403, Fugitive Dust, which requires watering of active grading areas, have been incorporated into the proposed Project and are included in the emissions calculations. CEQA significance thresholds address the impacts of construction activity emissions on air quality. Tables 3 and 4 shows project construction phase daily and annual criteria emissions and evaluates those emissions against the respective MDAQMD construction significance thresholds. Because Project related emissions are below both the daily and annual significance thresholds adopted by the MDAQMD, the Project would result in less than significant impacts to air quality from construction related emissions.

| Table 3: Daily Construction Emissions Summary and Significance Evaluation | | | |
|---|---|---|---|
| Criteria Pollutants | Project Emissions (lbs/day) | Threshold (lbs/day) | Significant? |
| ROG (VOC) | 14 | 137 | No |
| $NO_X$ | 32 | 137 | No |
| CO | 31 | 548 | No |
| $SO_X$ | <1 | 137 | No |
| Total $PM_{10}$ | 9 | 82 | No |
| Total $PM_{2.5}$ | 5 | 65 | No |

Sources: MDAQMD 2020, CalEEMod Version 2022.1.1.28
Notes:
lbs/day are winter or summer maxima for planned land use
Total $PM_{10}$ / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

| Table 4: Annual Construction Emissions Summary and Significance Evaluation | | | |
|---|---|---|---|
| **Criteria Pollutants** | **Project Emissions (tons/year)** | **Threshold (tons/year)** | **Significant?** |
| ROG (VOC) | <1 | 25 | No |
| $NO_X$ | 1.4 | 25 | No |
| CO | 2.0 | 100 | No |
| $SO_X$ | <1 | 25 | No |
| Total $PM_{10}$ | <1 | 15 | No |
| Total $PM_{2.5}$ | <1 | 12 | No |

Sources: MDAQMD 2020, CalEEMod Version 2022.1.1.28
Notes:
Total $PM_{10}$ / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

### *Criteria Pollutants from Project Operation*

The term "project operations" refers to the full range of activities that occur for the planned land use. For projects, such as office parks, shopping centers, apartment buildings, residential subdivisions, and other indirect sources, motor vehicles traveling to and from the project represents the primary source of air pollutant emissions. Other sources of emissions are comprised of area (natural gas, consumer product usage, landscaping…) and energy. CEQA significance thresholds address the impacts of operational emission sources on air quality. Tables 5 and 6 shows operational phase daily and annual criteria emissions and evaluates those emissions against the respective MDAQMD operational thresholds. As shown in these Tables, Project related emissions are below both the daily and annual significance thresholds adopted by the air district. Consequently, the air district does not consider emissions occurring during the operations phase of the Project to generate substantial amounts of air pollution and would result in less than significant impacts to air quality.

PROJECTED IMPACT: Less Than Significant (LTS)

| Table 5: Daily Operational Emissions Summary and Significance Evaluation | | | |
|---|---|---|---|
| **Criteria Pollutants** | **Project Emissions (lbs/day)** | **Threshold (lbs/day)** | **Significant?** |
| ROG (VOC) | 4 | 137 | No |
| $NO_X$ | 3 | 137 | No |
| CO | 21 | 548 | No |
| $SO_X$ | <1 | 137 | No |
| Total $PM_{10}$ | 3 | 82 | No |
| Total $PM_{2.5}$ | 1 | 65 | No |

Sources: MDAQMD 2020, CalEEMod Version 2022.1.1.28
Notes:
lbs/day are winter or summer maxima for planned land use
Total PM10 / PM2.5 comprises fugitive dust plus engine exhaust

| Table 6: Annual Operational Emissions Summary and Significance Evaluation | | | |
|---|---|---|---|
| **Criteria Pollutants** | **Project Emissions (tons/year)** | **Threshold (tons/year)** | **Significant?** |
| ROG (VOC) | 5 | 25 | No |
| $NO_X$ | <1 | 25 | No |
| CO | 8 | 100 | No |
| $SO_X$ | <1 | 25 | No |
| Total $PM_{10}$ | 1 | 15 | No |
| Total $PM_{2.5}$ | <1 | 12 | No |

Sources: MDAQMD 2020, CalEEMod Version 2022.1.1.28
Notes:
Total $PM_{10}$ / $PM_{2.5}$ comprises fugitive dust plus engine exhaust

### *Greenhouse Gas Emissions from Construction and Operation*

Greenhouse gases – primarily carbon dioxide ($CO_2$), methane ($CH_4$), and nitrous ($N_2O$) oxide, collectively reported as carbon dioxide equivalents ($CO_2e$) – are directly emitted from stationary source combustion of natural gas in equipment such as water heaters, boilers, process heaters, and furnaces. GHGs are also emitted from mobile sources such as on-road vehicles and off-road construction equipment burning fuels such as gasoline, diesel, biodiesel, propane, or natural gas (compressed or liquefied). Indirect GHG emissions result from electric power generated elsewhere (i.e., power plants) used to operate process equipment, lighting, and utilities at a facility. Also, included in GHG quantification is electric power used to pump the water supply (e.g., aqueducts, wells, pipelines) and disposal and decomposition of municipal waste in landfills. (CARB 2017)

California's Building Energy Efficiency Standards are updated on an approximately three-year cycle. The 2022 standards improved upon the 2019 standards for new construction of, and additions and alterations to, residential, commercial, and industrial buildings. The 2022 standards went into effect on January 1, 2023 (CEC 2022).

Since the Title 24 standards require energy conservation features in new construction (e.g., high-efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures, etc.), they indirectly regulate and reduce GHG emissions.

Using CalEEMod, direct onsite and offsite GHG emissions were estimated for construction and operation, and indirect offsite GHG emissions were estimated to account for electric power used by the proposed project, water conveyance, and solid waste disposal. CalEEMod also quantifies common refrigerant GHGs (abbreviated as "R" in the model output) used in air conditioning and refrigeration equipment, some of which are HFCs.

The MDAQMD mass emissions threshold is 100,000 short tons (90,720 metric tons (MT)) of $CO_2e$ per year (MDAQMD 2020). Table 7 shows GHG emissions associated with both the construction and operations phases of the Project. Construction emissions are amortized over the assumed useful life of the Project of 30 years and added to the operations phase emissions. These emissions are evaluated against the MDAQMD adopted GHG significance threshold. As shown in Table 7, GHG emissions attributable to the Project are substantially less than the significance threshold

adopted by the MDAQMD. As such, the air district does not consider the Project to result in excessive levels of the GHG emissions and would result in less than significant GHG impacts.

PROJECTED IMPACT: Less Than Significant (LTS)

**Table 7: Greenhouse Gas Emissions Summary and Significance Evaluation**

| Greenhouse Gases | Project Emissions[1] (MT/yr) | Threshold (MT/yr) | Significance |
|---|---|---|---|
| $CO_2$ | 702 | — | — |
| $CH_4$ | <1 | — | — |
| $N_2O$ | <1 | — | — |
| R | <1 | — | — |
| $CO_2e$ | 728 | 90,720 | No |

Sources: MDAQMD 2020, CalEEMod Version 2022.1.1.28
Notes:
[1]Comprises annual operational emissions plus construction emissions amortized over 30 years

## ENERGY IMPACT ANALYSIS

Residential project energy consumption primarily comprises 1) mobile source fuels (i.e., diesel and gasoline) used for construction, 2) area and mobile source fuels used for operation (e.g., residents' commutesand deliveries), and 3) building utilities (natural gas and electric power).

### *Project Construction Fuel Consumption*

The fuel consumption from the mobiles sources used for construction was calculated using the CalEEMod outputs. CalEEMod calculates mass emissions of GHGs, including $CO_2$, from offroad and onroad mobile sources associated with project construction. For construction, CalEEMod aggregates mobile source $CO_2$ emissions into four broad categories (typical fuel types assumed):

- Offroad equipment [diesel (Tiers 1-4)];
- Hauling [heavy-heavy duty diesel trucks (HHDT)];
- Vendor [medium-heavy and heavy-heavy duty diesel trucks (MHDT, HHDT)]; and
- Worker [light duty gasoline automobiles and trucks (LDA, LDT1, LDT2)].

For each category, diesel and gasoline fuel consumption can be estimated (back-calculated) using 2020 Climate Registry (40 CFR 98 Subpart C) emission factors for those fuels:

- Diesel Fuel Oil No. 2: 10.21 kg $CO_2$ per gallon [22.51 lbs $CO_2$ per gallon]; and
- Motor Gasoline: 8.78 kg $CO_2$ per gallon [19.36 lbs $CO_2$ per gallon].

Using the CalEEMod annual emissions results (MT $CO_2$) for each of the four mobile source categories (offroad, hauling, vendor, worker) and the corresponding $CO_2$ emission factors, Table 8 shows estimated fuel consumption during Project construction. As shown in Table 8, based on CalEEMod, Project construction would consume approximately 38,010 gallons of liquid fuels.

| Table 8: Construction Mobile Source Energy Use | | | | | |
|---|---|---|---|---|---|
| **Mobile Sources** | **Types** | **Fuels** | **MT $CO_2$** | **$CO_2$ Emission Factor (kg/gal)** | **Fuel Consumption (gallons)** |
| Off-Road | Tiers 1-4 | Diesel | 286 | 10.21 | 27,990 |
| Hauling | HHDT | Diesel | 0 | 10.21 | 0 |
| Vendor | MHDT, HHDT | Diesel | 23 | 10.21 | 2,230 |
| Worker | LDA, LDT1, LDT2 | Gasoline | 68 | 8.78 | 7,790 |
| **Totals** | | | **377** | **—** | **38,010** |

Sources: CalEEMod, TCR 2020, 40 CFR 98 Subpart C

### *Project Operation Fuel Consumption*

Similar to construction, CalEEMod calculates mass emissions of $CO_2$ from area and mobile sources associated with project operation. For operation, CalEEMod aggregates area and mobile source $CO_2$ emissions into three broad categories (typical fuel types assumed):

- Utility equipment [gasoline];
- Heavy Mobile [light-heavy, medium-heavy and heavy-heavy duty diesel trucks (LHDT, MHDT, HHDT)]; and
- Light Mobile [light and medium duty gasoline automobiles and trucks (LDA, LDT1, LDT2, MDV)].

For each category, diesel and gasoline fuel consumption can be estimated (back-calculated) using 2020 Climate Registry (40 CFR 98 Subpart C) emission factors for those fuels. Consistent with CalEEMod, residential land use operational vehicle fleet mixes comprise approximately 95% gasoline and 5% diesel fuel usage.

Using the CalEEMod annual emissions results (MT $CO_2$) for the area and mobile source categories and the corresponding $CO_2$ emission factors, Table 9 shows estimated fuel consumption during Project operation. As shown in Table 9, based on CalEEMod, project operation would consume approximately 65,330 gallons of liquid fuels annually.

| Table 9: Operational Area and Mobile Source Energy Use | | | | | |
|---|---|---|---|---|---|
| **Sources** | **Types** | **Fuels** | **MT $CO_2$/year** | **$CO_2$ Emission Factor (kg/gal)** | **Fuel Consumption (gallons/year)** |
| Area | Utility Equipment | Gasoline | 67 | 8.78 | 7,630 |
| Heavy Mobile | LHDT, MHDT, HHDT | Diesel | 26 | 10.21 | 2,500 |
| Light Mobile | LDA, LDT1, LDT2, MDV | Gasoline | 485 | 8.78 | 55,200 |
| **Totals** | | | **577** | **—** | **65,330** |

Sources: CalEEMod, TCR 2020, 40 CFR 98 Subpart C

### *Project Operation Utilities Consumption*

Based on CalEEMod for the defined land use, Table 10 shows estimated natural gas and electric power usage for the proposed Project.

As shown in Table 10, Project operation would result in natural gas usage of approximately 1 million cubic feet per year (MMcf/year), and utilization of approximately 317 megawatt-hours per year (MWh/year) of electric power.

| Table 10: Operational Utility Energy Use | | | |
|---|---|---|---|
| **Component** | **Type** | **Quantity** | **Units** |
| Utilities | Natural Gas | 1.02 | MMcf/year |
| Utilities | Electric Power[1] | 317 | MWh/year |

Source: CalEEMod

[1] includes electricity consumption for building and water processes.

### *Analysis of Energy Significance Criteria*

Impacts to energy resources would be considered significant if any of the following criteria are met. Would the project:

a) *Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

No. The proposed Project would not use energy in a wasteful and/or inefficient manner. Project construction would be performed by contractors with an economic incentive to minimize costs, one element of which is fuel conservation. The proposed residential project would be required by code to comply with the latest energy efficiency standards detailed within the Title 24 Building Standards. These standards include energy efficiency measures that includes minimizing direct operational energy usage by means of thermal wall insulation, insulating double-pane windows, high-efficiency HVAC equipment, LED lighting, motion-detector light switches, and other modern energy-saving features. In addition, low-flow plumbing fixtures conserve both water and energy, as less electric power would be needed for water conveyance and treatment. In addition, there are no characteristics of the proposed Project that would involve atypical usage of energy for the construction and operations phases of the project. As such, the proposed Project would not result in a wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation and would result in less than significant impacts.

b) *Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

No. The proposed Project would not conflict with or obstruct any adopted energy conservation plans, state or local plans for renewable energy, or energy efficiency. The California Building Energy Efficiency Standards (California Code of Regulations, Title 24, Parts 6 and 11) are designed to reduce unnecessary energy consumption in newly constructed and existing buildings, such as residential and commercial structures. The Building Energy Efficiency Standards are applicable to the proposed Project, which is designed for human habitation (CEC 2022).

The City of Hesperia General Plan 2010 also has an Energy Section of the Conservation Element. The Energy Section establishes Goal: CN-6 Provide programs and incentives to encourage residents, businesses and developers to reduce consumption and efficiently use energy resources. The proposed Project is consistent with the Implementation Policies of this Goal by including energy efficiency to reduce energy consumption and conserve resources. The proposed Project would also include solar photovoltaic electricity generation which is also consistent with Implementation Policy CN-7.4 which promotes the development of renewable energy generation.

The proposed Project would include electric vehicle (EV) charging stations, which would reduce transportation fuel consumption and consistent with the goals of the electrification of vehicles detailed under the CARB Advanced Clean Cars II Rule and transition to renewable energy goals of the Renewable Portfolio Standards. Thus, the proposed Project would not conflict with renewable energy goals established under the Renewable Portfolio Standards or the energy efficiency goals set by California's Title 24 Energy Efficiency Standards. Impacts would be less than significant.

PROJECTED IMPACT: Less Than Significant (LTS)

## CLOSING

The air quality and GHG impacts of the proposed Project were evaluated based on the significance thresholds and guidelines adopted by the MDAQMD. Both the construction and operations phases resulted in criteria pollutant emissions that are below the MDAQMD significance thresholds and consequently are considered to result in less than significant impacts related to air quality. GHG emissions for the proposed Project were likewise found to result in emissions that are below the MDAQMD's significance threshold and consequently would result in less than significant impacts. As such, the Project would result in less than significant impacts related to air quality and GHG emissions. Energy consumption associated with the construction and operations phases of the proposed Project was also evaluated against the CEQA Appendix G checklist questions and found to be consistent with the goals and policies adopted by both the State of California and the City of Hesperia. As such, energy related impacts attributable to the proposed Project would result in less than significant impacts.

Thank you very much for the opportunity to be of assistance to Maida Holdings. Should you have any questions, please contact me at (949) 979-1372 (mobile) or (949) 979-1372 (office).

Sincerely,

Tin Cheung
Principal Scientist
Yorke Engineering, LLC
TCheung@YorkeEngr.com

cc: Tina Darjazanie, Yorke Engineering, LLC

Enclosures/Attachments:

1. CalEEMod Outputs

## REFERENCES

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# ATTACHMENT 1 – CALEEMOD OUTPUTS

# Hesperia Apartment Buildings Detailed Report

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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 | Hesperia Apartment Buildings |
| Construction Start Date | 1/2/2025 |
| Operational Year | 2026 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.80 |
| Precipitation (days) | 1.40 |
| Location | 34.424141370228895, -117.35280899935994 |
| County | San Bernardino-Mojave Desert |
| City | Hesperia |
| Air District | Mojave Desert AQMD |
| Air Basin | Mojave Desert |
| TAZ | 5183 |
| EDFZ | 10 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southwest Gas Corp. |
| App Version | 2022.1.1.28 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 64.0 | Dwelling Unit | 4.91 | 39,196 | 52,296 | — | 212 | — |

## 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. | 1.63 | 1.39 | 10.9 | 17.0 | 0.03 | 0.43 | 0.66 | 1.10 | 0.40 | 0.16 | 0.56 | — | 3,288 | 3,288 | 0.12 | 0.07 | 3.05 | 3,315 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 13.8 | 13.8 | 31.7 | 31.2 | 0.05 | 1.37 | 7.89 | 9.26 | 1.26 | 3.99 | 5.25 | — | 5,521 | 5,521 | 0.23 | 0.07 | 0.08 | 5,542 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.08 | 0.91 | 7.54 | 10.7 | 0.02 | 0.30 | 0.58 | 0.88 | 0.28 | 0.18 | 0.46 | — | 2,135 | 2,135 | 0.08 | 0.05 | 0.83 | 2,151 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.20 | 0.17 | 1.38 | 1.95 | < 0.005 | 0.06 | 0.11 | 0.16 | 0.05 | 0.03 | 0.08 | — | 353 | 353 | 0.01 | 0.01 | 0.14 | 356 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.63 | 1.39 | 10.9 | 17.0 | 0.03 | 0.43 | 0.66 | 1.10 | 0.40 | 0.16 | 0.56 | — | 3,288 | 3,288 | 0.12 | 0.07 | 3.05 | 3,315 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 4.03 | 3.39 | 31.7 | 31.2 | 0.05 | 1.37 | 7.89 | 9.26 | 1.26 | 3.99 | 5.25 | — | 5,521 | 5,521 | 0.23 | 0.07 | 0.08 | 5,542 |
| 2026 | 13.8 | 13.8 | 10.3 | 15.4 | 0.03 | 0.38 | 0.66 | 1.04 | 0.35 | 0.16 | 0.51 | — | 3,195 | 3,195 | 0.11 | 0.07 | 0.07 | 3,219 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 1.08 | 0.91 | 7.54 | 10.7 | 0.02 | 0.30 | 0.58 | 0.88 | 0.28 | 0.18 | 0.46 | — | 2,135 | 2,135 | 0.08 | 0.05 | 0.83 | 2,151 |
| 2026 | 0.75 | 0.74 | 0.52 | 0.82 | < 0.005 | 0.02 | 0.03 | 0.05 | 0.02 | 0.01 | 0.03 | — | 142 | 142 | < 0.005 | < 0.005 | 0.05 | 143 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.20 | 0.17 | 1.38 | 1.95 | < 0.005 | 0.06 | 0.11 | 0.16 | 0.05 | 0.03 | 0.08 | — | 353 | 353 | 0.01 | 0.01 | 0.14 | 356 |
| 2026 | 0.14 | 0.13 | 0.09 | 0.15 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 23.5 | 23.5 | < 0.005 | < 0.005 | 0.01 | 23.7 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.91 | 3.70 | 2.71 | 20.5 | 0.04 | 0.10 | 3.03 | 3.13 | 0.10 | 0.77 | 0.87 | 30.6 | 5,086 | 5,117 | 3.29 | 0.18 | 12.8 | 5,267 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.27 | 3.07 | 2.82 | 13.5 | 0.04 | 0.10 | 3.03 | 3.13 | 0.10 | 0.77 | 0.86 | 30.6 | 4,756 | 4,786 | 3.30 | 0.19 | 0.61 | 4,926 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 25.5 | 25.0 | 2.39 | 41.7 | 0.08 | 3.78 | 2.71 | 6.49 | 3.76 | 0.69 | 4.45 | 430 | 3,733 | 4,162 | 3.64 | 0.20 | 5.13 | 4,319 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.65 | 4.56 | 0.44 | 7.62 | 0.01 | 0.69 | 0.50 | 1.18 | 0.69 | 0.13 | 0.81 | 71.2 | 618 | 689 | 0.60 | 0.03 | 0.85 | 715 |

## 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 | 2.57 | 2.42 | 1.82 | 16.5 | 0.04 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,689 | 3,689 | 0.14 | 0.17 | 12.6 | 3,754 |
| Area | 1.31 | 1.26 | 0.62 | 3.88 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 751 | 751 | 0.01 | < 0.005 | — | 752 |
| Energy | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 626 | 626 | 0.06 | < 0.005 | — | 629 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Total | 3.91 | 3.70 | 2.71 | 20.5 | 0.04 | 0.10 | 3.03 | 3.13 | 0.10 | 0.77 | 0.87 | 30.6 | 5,086 | 5,117 | 3.29 | 0.18 | 12.8 | 5,267 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.26 | 2.11 | 1.97 | 13.2 | 0.03 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,368 | 3,368 | 0.15 | 0.17 | 0.33 | 3,424 |
| Area | 0.97 | 0.94 | 0.58 | 0.25 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 741 | 741 | 0.01 | < 0.005 | — | 742 |
| Energy | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 626 | 626 | 0.06 | < 0.005 | — | 629 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Total | 3.27 | 3.07 | 2.82 | 13.5 | 0.04 | 0.10 | 3.03 | 3.13 | 0.10 | 0.77 | 0.86 | 30.6 | 4,756 | 4,786 | 3.30 | 0.19 | 0.61 | 4,926 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.04 | 1.91 | 1.80 | 12.7 | 0.03 | 0.03 | 2.71 | 2.74 | 0.02 | 0.69 | 0.71 | — | 3,081 | 3,081 | 0.14 | 0.16 | 4.85 | 3,136 |
| Area | 23.4 | 23.1 | 0.32 | 28.9 | 0.05 | 3.73 | — | 3.73 | 3.72 | — | 3.72 | 399 | 4.79 | 404 | 0.37 | 0.03 | — | 422 |
| Energy | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 626 | 626 | 0.06 | < 0.005 | — | 629 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Total | 25.5 | 25.0 | 2.39 | 41.7 | 0.08 | 3.78 | 2.71 | 6.49 | 3.76 | 0.69 | 4.45 | 430 | 3,733 | 4,162 | 3.64 | 0.20 | 5.13 | 4,319 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.37 | 0.35 | 0.33 | 2.32 | 0.01 | < 0.005 | 0.50 | 0.50 | < 0.005 | 0.13 | 0.13 | — | 510 | 510 | 0.02 | 0.03 | 0.80 | 519 |
| Area | 4.28 | 4.21 | 0.06 | 5.27 | 0.01 | 0.68 | — | 0.68 | 0.68 | — | 0.68 | 66.1 | 0.79 | 66.9 | 0.06 | < 0.005 | — | 69.8 |
| Energy | 0.01 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 104 | 104 | 0.01 | < 0.005 | — | 104 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 0.85 | 3.35 | 4.20 | 0.09 | < 0.005 | — | 7.00 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 4.23 | 0.00 | 4.23 | 0.42 | 0.00 | — | 14.8 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Total | 4.65 | 4.56 | 0.44 | 7.62 | 0.01 | 0.69 | 0.50 | 1.18 | 0.69 | 0.13 | 0.81 | 71.2 | 618 | 689 | 0.60 | 0.03 | 0.85 | 715 |

# 3. Construction Emissions Details

## 3.1. Site Preparation (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 | 3.94 | 3.31 | 31.6 | 30.2 | 0.05 | 1.37 | — | 1.37 | 1.26 | — | 1.26 | — | 5,295 | 5,295 | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.05 | 0.43 | 0.41 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 72.5 | 72.5 | < 0.005 | < 0.005 | — | 72.8 |
| 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.08 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 12.0 | 12.0 | < 0.005 | < 0.005 | — | 12.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.02 | 0.02 | — | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.09 | 0.98 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 226 | 226 | 0.01 | 0.01 | 0.02 | 229 |
| 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 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.19 | 3.19 | < 0.005 | < 0.005 | 0.01 | 3.23 |
| 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 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.53 | 0.53 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| 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 |

## 3.3. Grading (2025) - Unmitigated

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

| Location | 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 | 2.07 | 1.74 | 16.3 | 17.9 | 0.03 | 0.72 | — | 0.72 | 0.66 | — | 0.66 | — | 2,959 | 2,959 | 0.12 | 0.02 | — | 2,970 |
| Dust From Material Movement | — | — | — | — | — | — | 2.76 | 2.76 | — | 1.34 | 1.34 | — | — | — | — | — | — | — |
| 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road | 0.05 | 0.04 | 0.36 | 0.39 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 64.9 | 64.9 | < 0.005 | < 0.005 | — | 65.1 |
| Dust From Material Movement | — | — | — | — | — | — | 0.06 | 0.06 | — | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 10.7 | 10.7 | < 0.005 | < 0.005 | — | 10.8 |
| Dust From Material Movement | — | — | — | — | — | — | 0.01 | 0.01 | — | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.07 | 0.08 | 0.84 | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05 | 0.05 | — | 194 | 194 | 0.01 | 0.01 | 0.02 | 196 |
| 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 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.37 | 4.37 | < 0.005 | < 0.005 | 0.01 | 4.43 |
| 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 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.72 | 0.72 | < 0.005 | < 0.005 | < 0.005 | 0.73 |
| 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 |

## 3.5. Building Construction (2025) - Unmitigated

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

| Location | 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 | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.83 | 0.69 | 6.44 | 8.04 | 0.01 | 0.27 | — | 0.27 | 0.24 | — | 0.24 | — | 1,478 | 1,478 | 0.06 | 0.01 | — | 1,483 |
| 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 | 0.15 | 0.13 | 1.17 | 1.47 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 245 | 245 | 0.01 | < 0.005 | — | 246 |
| 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.25 | 0.22 | 3.83 | 0.00 | 0.00 | 0.60 | 0.60 | 0.00 | 0.14 | 0.14 | — | 672 | 672 | 0.03 | 0.02 | 2.46 | 682 |
| Vendor | 0.01 | 0.01 | 0.22 | 0.10 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 218 | 218 | < 0.005 | 0.03 | 0.60 | 227 |
| 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 | 0.23 | 0.21 | 0.24 | 2.57 | 0.00 | 0.00 | 0.60 | 0.60 | 0.00 | 0.14 | 0.14 | — | 595 | 595 | 0.03 | 0.02 | 0.06 | 603 |
| Vendor | 0.01 | 0.01 | 0.23 | 0.10 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 218 | 218 | < 0.005 | 0.03 | 0.02 | 227 |
| 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 | 0.14 | 0.13 | 0.16 | 1.77 | 0.00 | 0.00 | 0.37 | 0.37 | 0.00 | 0.09 | 0.09 | — | 378 | 378 | 0.02 | 0.01 | 0.65 | 383 |
| Vendor | 0.01 | 0.01 | 0.14 | 0.06 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 134 | 134 | < 0.005 | 0.02 | 0.16 | 140 |
| 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 | 0.03 | 0.02 | 0.03 | 0.32 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 62.5 | 62.5 | < 0.005 | < 0.005 | 0.11 | 63.4 |
| Vendor | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.3 | 22.3 | < 0.005 | < 0.005 | 0.03 | 23.2 |
| 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 |

## 3.7. Building Construction (2026) - Unmitigated

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

| Location | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.15 | 0.20 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 37.5 | 37.5 | < 0.005 | < 0.005 | — | 37.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 6.21 | 6.21 | < 0.005 | < 0.005 | — | 6.23 |
| 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 | 0.22 | 0.20 | 0.22 | 2.37 | 0.00 | 0.00 | 0.60 | 0.60 | 0.00 | 0.14 | 0.14 | — | 583 | 583 | 0.01 | 0.02 | 0.06 | 590 |
| Vendor | 0.01 | 0.01 | 0.23 | 0.09 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 214 | 214 | < 0.005 | 0.03 | 0.01 | 223 |
| 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 | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.40 | 9.40 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 3.35 | 3.35 | < 0.005 | < 0.005 | < 0.005 | 3.49 |
| 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.56 | 1.56 | < 0.005 | < 0.005 | < 0.005 | 1.58 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.55 | 0.55 | < 0.005 | < 0.005 | < 0.005 | 0.58 |
| 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 |

## 3.9. 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 | 0.81 | 0.68 | 6.23 | 8.81 | 0.01 | 0.26 | — | 0.26 | 0.24 | — | 0.24 | — | 1,350 | 1,350 | 0.05 | 0.01 | — | 1,355 |
| Paving | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.31 | 0.43 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 66.6 | 66.6 | < 0.005 | < 0.005 | — | 66.8 |
| Paving | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.0 | 11.0 | < 0.005 | < 0.005 | — | 11.1 |
| Paving | 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 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.08 | 0.10 | 1.03 | 0.00 | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 253 | 253 | < 0.005 | 0.01 | 0.03 | 256 |
| 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 | < 0.005 | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.9 | 12.9 | < 0.005 | < 0.005 | 0.02 | 13.0 |
| 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 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.13 | 2.13 | < 0.005 | < 0.005 | < 0.005 | 2.16 |
| 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 |

## 3.11. 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 |
| Architectural Coatings | 13.6 | 13.6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 6.58 | 6.58 | < 0.005 | < 0.005 | — | 6.61 |
| Architectural Coatings | 0.67 | 0.67 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 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 | — | 1.09 | 1.09 | < 0.005 | < 0.005 | — | 1.09 |
| Architectural Coatings | 0.12 | 0.12 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 | 0.04 | 0.04 | 0.04 | 0.47 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 117 | 117 | < 0.005 | < 0.005 | 0.01 | 118 |
| 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 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.92 | 5.92 | < 0.005 | < 0.005 | 0.01 | 6.00 |
| 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 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.98 | 0.98 | < 0.005 | < 0.005 | < 0.005 | 0.99 |
| 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 |

# 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 2.57 | 2.42 | 1.82 | 16.5 | 0.04 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,689 | 3,689 | 0.14 | 0.17 | 12.6 | 3,754 |
| Total | 2.57 | 2.42 | 1.82 | 16.5 | 0.04 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,689 | 3,689 | 0.14 | 0.17 | 12.6 | 3,754 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 2.26 | 2.11 | 1.97 | 13.2 | 0.03 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,368 | 3,368 | 0.15 | 0.17 | 0.33 | 3,424 |
| Total | 2.26 | 2.11 | 1.97 | 13.2 | 0.03 | 0.03 | 3.03 | 3.06 | 0.03 | 0.77 | 0.80 | — | 3,368 | 3,368 | 0.15 | 0.17 | 0.33 | 3,424 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 0.37 | 0.35 | 0.33 | 2.32 | 0.01 | < 0.005 | 0.50 | 0.50 | < 0.005 | 0.13 | 0.13 | — | 510 | 510 | 0.02 | 0.03 | 0.80 | 519 |
| Total | 0.37 | 0.35 | 0.33 | 2.32 | 0.01 | < 0.005 | 0.50 | 0.50 | < 0.005 | 0.13 | 0.13 | — | 510 | 510 | 0.02 | 0.03 | 0.80 | 519 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | 284 | 284 | 0.03 | < 0.005 | — | 286 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 284 | 284 | 0.03 | < 0.005 | — | 286 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | 284 | 284 | 0.03 | < 0.005 | — | 286 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 284 | 284 | 0.03 | < 0.005 | — | 286 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | 47.1 | 47.1 | < 0.005 | < 0.005 | — | 47.4 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 47.1 | 47.1 | < 0.005 | < 0.005 | — | 47.4 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.03 | < 0.005 | — | 343 |
| Total | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.03 | < 0.005 | — | 343 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.03 | < 0.005 | — | 343 |
| Total | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 342 | 342 | 0.03 | < 0.005 | — | 343 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | 0.01 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.6 | 56.6 | 0.01 | < 0.005 | — | 56.7 |
| Total | 0.01 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.6 | 56.6 | 0.01 | < 0.005 | — | 56.7 |

## 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 | 0.07 | 0.03 | 0.58 | 0.25 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 741 | 741 | 0.01 | < 0.005 | — | 742 |
| Consumer Products | 0.84 | 0.84 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.07 | 0.07 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.34 | 0.32 | 0.04 | 3.63 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.71 | 9.71 | < 0.005 | < 0.005 | — | 9.74 |
| Total | 1.31 | 1.26 | 0.62 | 3.88 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 751 | 751 | 0.01 | < 0.005 | — | 752 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.07 | 0.03 | 0.58 | 0.25 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 741 | 741 | 0.01 | < 0.005 | — | 742 |
| Consumer Products | 0.84 | 0.84 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.07 | 0.07 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.97 | 0.94 | 0.58 | 0.25 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 0.00 | 741 | 741 | 0.01 | < 0.005 | — | 742 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 4.08 | 4.01 | 0.05 | 4.95 | 0.01 | 0.68 | — | 0.68 | 0.68 | — | 0.68 | 66.1 | 0.00 | 66.1 | 0.06 | < 0.005 | — | 69.0 |
| Consumer Products | 0.15 | 0.15 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.03 | 0.03 | < 0.005 | 0.33 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.79 | 0.79 | < 0.005 | < 0.005 | — | 0.80 |
| Total | 4.28 | 4.21 | 0.06 | 5.27 | 0.01 | 0.68 | — | 0.68 | 0.68 | — | 0.68 | 66.1 | 0.79 | 66.9 | 0.06 | < 0.005 | — | 69.8 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 5.11 | 20.3 | 25.4 | 0.53 | 0.01 | — | 42.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 0.85 | 3.35 | 4.20 | 0.09 | < 0.005 | — | 7.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 0.85 | 3.35 | 4.20 | 0.09 | < 0.005 | — | 7.00 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 25.5 | 0.00 | 25.5 | 2.55 | 0.00 | — | 89.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | 4.23 | 0.00 | 4.23 | 0.42 | 0.00 | — | 14.8 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 4.23 | 0.00 | 4.23 | 0.42 | 0.00 | — | 14.8 |

## 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.28 | 0.28 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartme Low Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |

## 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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 |
|---|---|---|---|---|---|---|
| Site Preparation | Site Preparation | 1/31/2025 | 2/7/2025 | 5.00 | 5.00 | — |
| Grading | Grading | 2/8/2025 | 2/19/2025 | 5.00 | 8.00 | — |
| Building Construction | Building Construction | 2/20/2025 | 1/8/2026 | 5.00 | 230 | — |
| Paving | Paving | 1/9/2026 | 2/3/2026 | 5.00 | 18.0 | — |
| Architectural Coating | Architectural Coating | 2/4/2026 | 3/1/2026 | 5.00 | 18.0 | — |

## 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/Back hoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| 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 | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Paving | Paving Equipment | Diesel | Average | 2.00 | 6.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 6.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 2.00 | 6.00 | 10.0 | 0.56 |
| 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 | 15.0 | 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 | 46.1 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 6.84 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 20.0 | 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 | 9.22 | 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 | 79,372 | 26,457 | 0.00 | 0.00 | — |

## 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 | — | — | 7.50 | 0.00 | — |
| Grading | — | — | 8.00 | 0.00 | — |
| Paving | 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 | 2 | 61% | 61% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Apartments Low Rise | — | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2025 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 468 | 521 | 402 | 170,261 | 3,864 | 4,296 | 3,315 | 1,404,160 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---|---|
| Apartments Low Rise | — |
| Wood Fireplaces | 22 |
| Gas Fireplaces | 35 |

| | |
|---|---|
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 6 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 3 |
| Non-Catalytic Wood Stoves | 3 |
| 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) |
|---|---|---|---|---|
| 79371.9 | 26,457 | 0.00 | 0.00 | — |

### 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) |
|---|---|---|---|---|---|
| Apartments Low Rise | 299,888 | 346 | 0.0330 | 0.0040 | 1,066,020 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Apartments Low Rise | 2,667,595 | 1,415,036 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Apartments Low Rise | 47.4 | — |

## 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 Low 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 Low 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 |
|---|---|---|---|---|---|---|

## 5.16. 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. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| 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) |
|---|---|---|---|

# 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 | 33.8 | annual days of extreme heat |
| Extreme Precipitation | 3.50 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 10.8 | 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 | 4 | 0 | 0 | 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 | 0 | 0 | 0 | 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 | 4 | 1 | 1 | 4 |
| 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 | 1 | 1 | 1 | 2 |
| 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 | 95.3 |
| AQ-PM | 41.4 |
| AQ-DPM | 14.5 |
| Drinking Water | 17.9 |
| Lead Risk Housing | 28.0 |

| | |
|---|---|
| Pesticides | 0.00 |
| Toxic Releases | 27.7 |
| Traffic | 90.1 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 0.00 |
| Haz Waste Facilities/Generators | 50.1 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |
| Sensitive Population | — |
| Asthma | 43.8 |
| Cardio-vascular | 78.1 |
| Low Birth Weights | 61.7 |
| Socioeconomic Factor Indicators | — |
| Education | 67.6 |
| Housing | 47.6 |
| Linguistic | 53.9 |
| Poverty | 66.6 |
| Unemployment | 47.0 |

## 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 | 31.8747594 |
| Employed | 8.828435776 |
| Median HI | 38.08546131 |
| Education | — |

| | |
|---|---|
| Bachelor's or higher | 23.23880405 |
| High school enrollment | 13.19132555 |
| Preschool enrollment | 55.10073143 |
| Transportation | — |
| Auto Access | 70.20402926 |
| Active commuting | 34.31284486 |
| Social | — |
| 2-parent households | 46.79840883 |
| Voting | 34.99294238 |
| Neighborhood | — |
| Alcohol availability | 73.86115745 |
| Park access | 2.194276915 |
| Retail density | 15.80905941 |
| Supermarket access | 27.08841268 |
| Tree canopy | 11.9209547 |
| Housing | — |
| Homeownership | 64.54510458 |
| Housing habitability | 35.39073528 |
| Low-inc homeowner severe housing cost burden | 43.82137816 |
| Low-inc renter severe housing cost burden | 2.091620685 |
| Uncrowded housing | 43.53907353 |
| Health Outcomes | — |
| Insured adults | 42.7691518 |
| Arthritis | 29.1 |
| Asthma ER Admissions | 49.7 |
| High Blood Pressure | 40.5 |
| Cancer (excluding skin) | 49.7 |
| Asthma | 19.7 |

| | |
|---|---|
| Coronary Heart Disease | 34.0 |
| Chronic Obstructive Pulmonary Disease | 19.2 |
| Diagnosed Diabetes | 36.9 |
| Life Expectancy at Birth | 25.5 |
| Cognitively Disabled | 17.4 |
| Physically  Disabled | 17.3 |
| Heart Attack ER Admissions | 37.7 |
| Mental Health Not Good | 26.2 |
| Chronic Kidney Disease | 45.1 |
| Obesity | 29.7 |
| Pedestrian Injuries | 71.1 |
| Physical Health Not Good | 28.8 |
| Stroke | 29.9 |
| Health Risk Behaviors | — |
| Binge Drinking | 45.1 |
| Current Smoker | 23.0 |
| No Leisure Time for Physical Activity | 37.6 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 39.2 |
| Elderly | 59.3 |
| English Speaking | 46.1 |
| Foreign-born | 26.4 |
| Outdoor Workers | 14.0 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 84.0 |
| Traffic Density | 12.1 |

| | |
|---|---|
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 77.5 |
| Other Decision Support | — |
| 2016 Voting | 47.9 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 42.0 |
| Healthy Places Index Score for Project Location (b) | 25.0 |
| 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 |
|---|---|
| Land Use | Based on Site Plan |
| Construction: Construction Phases | No Demolition |
| Operations: Hearths | No fireplaces |