OMB No. 2506-0177
(exp.2/28/2025)

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Air Quality (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental-review/air-quality

1. **Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?**

   ☒ Yes → *Continue to Question 2.*

   ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.*

2. **Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?**
   Follow the link below to determine compliance status of project county or air quality management district:
   http://www.epa.gov/oaqps001/greenbk/

   ☐ No, project's county or air quality management district is in attainment status for all criteria pollutants
   → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

   ☒ Yes, project's management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → *Continue to Question 3.*

3. **Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis or threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?**

   ☒ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels
   → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed de minimis or threshold emissions.*

☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ *Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.*

4. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**
   Please see section below and model output PDF.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The El Dorado County Air Pollution Control District regulates emissions in two primary air basins. This project is located in the Sacramento regional air basin, where ozone and particulate pollution are problems across a number of adjacent counties, including Yolo, Solano, Sacramento, Butte, etc. The Lake Tahoe basin part of El Dorado County is considered a separate air basin and usually does not receive air from the Sacramento area. The Sacramento air basin part of El Dorado County does not attain the federal air pollution standards for the 2008 8-hour ozone standard and is designated "severe-15". The area is also non-attainment for the 24-hour PM2.5 standard, and attainment status is designated "moderate. The area is also designated non-attainment for California state ozone and PM2.5 standards. See attached sheet for more information.

CalEEMod v2022.1 is a model developed for evaluating air quality impacts from new developments. It is used by all air districts in California and provides estimates of both construction and operation emissions. Emissions from this project were modeled with CalEEMod and a summary output is provided below.

Diamond Springs is part of the El Dorado County Air Pollution Control District. The air district regulates stationary sources and, while it does not have direct permitting authority, it recommends emission control strategies for construction projects. The air district has adopted so-called "Thresholds of Significance" for three classes of air pollution: Reactive Organic Gases (ROG), Oxides of Nitrogen (NOx), and Respirable Particulate 10 microns or smaller (PM10). The first two compounds react in the presence of sunlight to create ozone, commonly called 'smog'. PM10 is harmful to breath and can damage agricultural production. The air districts thresholds of significance can be considered de minimis levels, when compared to modeled construction and operation emissions. Average daily emission estimates and thresholds of significance are shown below.

El Dorado County APCD Thresholds of Significance and Estimated Project Emissions

Compound	Significance Threshold	Project construction	Project. operation
ROG	82 lbs/day	5.9 lbs/day with mitigation	4.2 lbs/day with mitigation
NOx	82 lbs/day	7 lbs/day with mitigation	2.8 lbs/day with mitigation
PM10	No visible emissions at property boundary	2.2 lbs/day with mitigation	88 lbs/day with mitigation (this includes driving trips off-site).

The PM10 emissions are estimated to occur over an entire 24-hour period (e.g., water heating) and will be dispersed (e.g., driving by residents to work, shop, church, etc.) Thus, there will be no visible emissions at the project boundary.

The CalEEMod output at the end of Exhibit 2-D gives more detailed information.

Viable mitigations for this project were included in the modeling and are appropriate due to the severe ozone designation noted above. The following mitigation measures shall be implemented to reduce air quality impacts for construction and operations:

1. Limit Heavy-Duty Diesel Vehicle Idling to 5 minutes maximum (as required by state rules).
2. All desel construction equipment shall use EPA Tier 4F engines.
3. Diesel construction equipment will use Renewable Diesel fuel which reduces greenhouse gas emissions by up to 75%. This measure is in harmony with the state climate change adaptation plan.
4. The project will control dust via site watering 2x per day when the soil is dry.

CALIFORNIA
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Search for your zip code

Contains "95619"

Where is 95619?

Air District: El Dorado

County: El Dorado

Note: Some zip codes may span across multiple air districts and/or counties.

Go Back to Map

Attainment Status for **95619** in the year 2020

Level	Pollutant/Standard	Attainment Status
Federal	Ozone (2008 standard)	Nonattainment - Severe 15
	Ozone (2015 standard)	Nonattainment - Moderate
	PM2.5 (2006 standard)	Nonattainment - Moderate
	PM2.5 (2012 standard)	Attainment
	PM10	Attainment
State	Ozone	Nonattainment
	PM2.5	Unclassified
	PM10	Nonattainment

Note: Some zip codes may span across multiple attainment area boundaries. These are indicated by an asterisk *

6500 Pleasant Valley Rd El Dorado CA Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	6500 Pleasant Valley Rd El Dorado CA
Construction Start Date	12/1/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	42.6
Location	6500 Pleasant Valley Rd, Diamond Springs, CA 95619, USA
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	409
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.22

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	65.0	Dwelling Unit	4.70	68,900	1,000	—	165	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-8	Use Renewable Diesel
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-C	Water Unpaved Construction Roads
Transportation	T-4	Integrate A ordable and Below Market Rate Housing

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Unmit.	1.36	10.9	32.1	3.63	3,169
Mit.	1.29	10.1	32.1	3.60	3,169
% Reduced	5%	8%	< 0.5%	1%	—
Daily, Winter (Max)	—	—	—	—	—
Unmit.	120	36.0	32.1	12.7	5,496
Mit.	120	25.3	32.1	6.07	5,496
% Reduced	—	30%	< 0.5%	52%	—
Average Daily (Max)	—	—	—	—	—

Unmit.	5.92	7.96	19.2	2.38	2,175
Mit.	5.92	6.97	18.9	2.22	2,175
% Reduced	—	12%	1%	7%	—
Annual (Max)	—	—	—	—	—
Unmit.	1.08	1.45	3.50	0.43	360
Mit.	1.08	1.27	3.45	0.41	360
% Reduced	< 0.5%	12%	1%	7%	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—
2025	1.36	10.9	32.1	3.63	3,169
Daily - Winter (Max)	—	—	—	—	—
2024	3.72	36.0	32.1	12.7	5,496
2025	3.39	31.7	32.1	12.5	5,492
2026	120	6.32	12.7	1.50	1,555
Average Daily	—	—	—	—	—
2024	0.01	0.14	0.12	0.05	21.5
2025	0.97	7.96	19.2	2.38	2,175
2026	5.92	0.07	0.30	0.03	17.5
Annual	—	—	—	—	—
2024	< 0.005	0.03	0.02	0.01	3.56
2025	0.18	1.45	3.50	0.43	360
2026	1.08	0.01	0.05	0.01	2.89

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—
2025	1.29	10.1	32.1	3.60	3,169
Daily - Winter (Max)	—	—	—	—	—
2024	2.70	25.3	19.6	6.07	5,496
2025	2.47	22.4	32.1	5.93	5,492
2026	120	4.66	12.6	1.45	1,555
Average Daily	—	—	—	—	—
2024	0.01	0.10	0.07	0.02	21.5
2025	0.88	6.97	18.9	2.22	2,175
2026	5.92	0.06	0.30	0.03	17.5
Annual	—	—	—	—	—
2024	< 0.005	0.02	0.01	< 0.005	3.56
2025	0.16	1.27	3.45	0.41	360
2026	1.08	0.01	0.05	0.01	2.89

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Unmit.	5.81	3.89	155	16.3	6,899
Mit.	4.84	2.86	111	11.6	5,098
% Reduced	17%	27%	29%	29%	26%
Daily, Winter (Max)	—	—	—	—	—
Unmit.	5.19	4.39	155	16.3	6,439
Mit.	4.30	3.20	111	11.6	4,767

% Reduced	17%	27%	29%	29%	26%
Average Daily (Max)	—	—	—	—	—
Unmit.	5.04	3.83	123	13.0	5,914
Mit.	4.24	2.81	87.9	9.27	4,393
% Reduced	16%	27%	29%	29%	26%
Annual (Max)	—	—	—	—	—
Unmit.	0.92	0.70	22.5	2.37	979
Mit.	0.77	0.51	16.0	1.69	727
% Reduced	16%	27%	29%	29%	26%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Mobile	3.40	3.60	155	16.2	6,296
Area	2.39	0.04	< 0.005	< 0.005	9.89
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8
Waste	—	—	—	—	90.6
Refrig.	—	—	—	—	0.49
Total	5.81	3.89	155	16.3	6,899
Daily, Winter (Max)	—	—	—	—	—
Mobile	3.11	4.14	155	16.2	5,847
Area	2.07	0.00	0.00	0.00	0.00
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8
Waste	—	—	—	—	90.6

Refrig.	—	—	—	—	0.49
Total	5.19	4.39	155	16.3	6,439
Average Daily	—	—	—	—	—
Mobile	2.79	3.56	123	13.0	5,316
Area	2.23	0.02	< 0.005	< 0.005	4.88
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8
Waste	—	—	—	—	90.6
Refrig.	—	—	—	—	0.49
Total	5.04	3.83	123	13.0	5,914
Annual	—	—	—	—	—
Mobile	0.51	0.65	22.5	2.36	880
Area	0.41	< 0.005	< 0.005	< 0.005	0.81
Energy	< 0.005	0.05	< 0.005	< 0.005	79.6
Water	—	—	—	—	3.44
Waste	—	—	—	—	15.0
Refrig.	—	—	—	—	0.08
Total	0.92	0.70	22.5	2.37	979

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Mobile	2.43	2.57	111	11.6	4,496
Area	2.39	0.04	< 0.005	< 0.005	9.89
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8

Waste	—	—	—	—	90.6
Refrig.	—	—	—	—	0.49
Total	4.84	2.86	111	11.6	5,098
Daily, Winter (Max)	—	—	—	—	—
Mobile	2.22	2.95	111	11.6	4,175
Area	2.07	0.00	0.00	0.00	0.00
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8
Waste	—	—	—	—	90.6
Refrig.	—	—	—	—	0.49
Total	4.30	3.20	111	11.6	4,767
Average Daily	—	—	—	—	—
Mobile	2.00	2.54	87.8	9.25	3,796
Area	2.23	0.02	< 0.005	< 0.005	4.88
Energy	0.01	0.25	0.02	0.02	481
Water	—	—	—	—	20.8
Waste	—	—	—	—	90.6
Refrig.	—	—	—	—	0.49
Total	4.24	2.81	87.9	9.27	4,393
Annual	—	—	—	—	—
Mobile	0.36	0.46	16.0	1.69	628
Area	0.41	< 0.005	< 0.005	< 0.005	0.81
Energy	< 0.005	0.05	< 0.005	< 0.005	79.6
Water	—	—	—	—	3.44
Waste	—	—	—	—	15.0
Refrig.	—	—	—	—	0.08
Total	0.77	0.51	16.0	1.69	727

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	3.65	36.0	1.60	1.47	5,314
Dust From Material Movement	—	—	19.7	10.1	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.01	0.14	0.01	0.01	20.8
Dust From Material Movement	—	—	0.08	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	< 0.005	3.44
Dust From Material Movement	—	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.08	0.08	10.9	1.11	182
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	< 0.005	0.73

Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2024) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Dust From Material Movement	—	—	7.67	3.94	—
Off-Road Equipment	2.63	25.2	1.12	1.03	5,314
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Dust From Material Movement	—	—	0.03	0.02	—
Off-Road Equipment	0.01	0.10	< 0.005	< 0.005	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Dust From Material Movement	—	—	0.01	< 0.005	—
Off-Road Equipment	< 0.005	0.02	< 0.005	< 0.005	3.44
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—

Worker	0.08	0.08	10.9	1.11	182
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	< 0.005	0.73
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.3. 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	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	3.31	31.6	1.37	1.26	5,314
Dust From Material Movement	—	—	19.7	10.1	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.02	0.01	62.4
Dust From Material Movement	—	—	0.23	0.12	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	< 0.005	10.3

Dust From Material Movement	—	—	0.04	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.08	0.08	10.9	1.11	179
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.11	0.01	2.15
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Dust From Material Movement	—	—	7.67	3.94	—
Off-Road Equipment	2.40	22.3	0.96	0.88	5,314
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—

Dust From Material Movement	—	—	0.09	0.05	—
Off-Road Equipment	0.03	0.26	0.01	0.01	62.4
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Dust From Material Movement	—	—	0.02	0.01	—
Off-Road Equipment	0.01	0.05	< 0.005	< 0.005	10.3
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.08	0.08	10.9	1.11	179
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.11	0.01	2.15
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	< 0.005	0.36
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	1.74	16.3	0.72	0.66	2,970
Dust From Material Movement	—	—	7.08	3.42	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.02	0.01	65.1
Dust From Material Movement	—	—	0.16	0.08	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	< 0.005	10.8
Dust From Material Movement	—	—	0.03	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.06	0.07	9.30	0.95	153
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.18	0.02	3.44
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	< 0.005	0.57
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2025) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Dust From Material Movement	—	—	2.76	1.34	—
Off-Road Equipment	0.45	3.96	0.13	0.12	2,970
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Dust From Material Movement	—	—	0.06	0.03	—
Off-Road Equipment	0.01	0.09	< 0.005	< 0.005	65.1
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Dust From Material Movement	—	—	0.01	0.01	—
Off-Road Equipment	< 0.005	0.02	< 0.005	< 0.005	10.8
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.06	0.07	9.30	0.95	153
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.18	0.02	3.44
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	< 0.005	0.57
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Off-Road Equipment	1.13	10.4	0.43	0.40	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	1.13	10.4	0.43	0.40	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.71	6.58	0.27	0.25	1,516
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	0.13	1.20	0.05	0.05	251
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Worker	0.22	0.15	29.0	2.96	533
Vendor	0.01	0.33	2.66	0.28	229
Hauling	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—

Worker	0.20	0.21	29.0	2.96	478
Vendor	0.01	0.35	2.66	0.28	229
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	0.13	0.12	16.2	1.65	308
Vendor	< 0.005	0.22	1.49	0.16	144
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	0.02	0.02	2.95	0.30	51.1
Vendor	< 0.005	0.04	0.27	0.03	23.9
Hauling	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Off-Road Equipment	1.06	9.61	0.40	0.37	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	1.06	9.61	0.40	0.37	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.67	6.05	0.25	0.23	1,516
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	0.12	1.10	0.05	0.04	251

Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Worker	0.22	0.15	29.0	2.96	533
Vendor	0.01	0.33	2.66	0.28	229
Hauling	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—
Worker	0.20	0.21	29.0	2.96	478
Vendor	0.01	0.35	2.66	0.28	229
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	0.13	0.12	16.2	1.65	308
Vendor	< 0.005	0.22	1.49	0.16	144
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	0.02	0.02	2.95	0.30	51.1
Vendor	< 0.005	0.04	0.27	0.03	23.9
Hauling	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2025) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	0.71	6.52	0.29	0.26	1,355
Paving	0.15	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.01	0.01	63.6
Paving	0.01	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	< 0.005	10.5
Paving	< 0.005	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.09	0.09	12.4	1.26	204
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.52	0.05	9.82
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.09	0.01	1.63
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2025) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e

Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Paving	0.15	—	—	—	—
Off-Road Equipment	0.57	4.73	0.22	0.20	1,355
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Paving	0.01	—	—	—	—
Off-Road Equipment	0.03	0.22	0.01	0.01	63.6
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Paving	< 0.005	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	< 0.005	10.5
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.09	0.09	12.4	1.26	204
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.52	0.05	9.82
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.09	0.01	1.63
Vendor	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	0.68	6.23	0.26	0.24	1,355
Paving	0.15	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	< 0.005	5.30
Paving	< 0.005	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	0.88
Paving	< 0.005	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.08	0.08	12.4	1.26	201
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	< 0.005	0.80

Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2026) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Paving	0.15	—	—	—	—
Off-Road Equipment	0.55	4.58	0.20	0.19	1,355
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Paving	< 0.005	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	< 0.005	5.30
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Paving	< 0.005	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	0.88
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—

Worker	0.08	0.08	12.4	1.26	201
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	< 0.005	0.80
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Off-Road Equipment	0.12	0.86	0.02	0.02	134
Architectural Coatings	120	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Off-Road Equipment	0.01	0.04	< 0.005	< 0.005	6.61
Architectural Coatings	5.91	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005	1.09

Architectural Coatings	1.08	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.04	0.04	5.80	0.59	94.0
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.25	0.03	4.74
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	< 0.005	0.78
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2026) - Mitigated

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

Location	ROG	NOx	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Architectural Coatings	120	—	—	—	—
Off-Road Equipment	0.12	0.86	0.02	0.02	134
Onsite truck	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—

Architectural Coatings	5.91	—	—	—	—
Off-Road Equipment	0.01	0.04	< 0.005	< 0.005	6.61
Onsite truck	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Architectural Coatings	1.08	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	< 0.005	1.09
Onsite truck	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Worker	0.04	0.04	5.80	0.59	94.0
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—
Worker	< 0.005	< 0.005	0.25	0.03	4.74
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	< 0.005	0.78
Vendor	0.00	0.00	0.00	0.00	0.00
Hauling	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	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	3.40	3.60	155	16.2	6,296
Total	3.40	3.60	155	16.2	6,296
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	3.11	4.14	155	16.2	5,847
Total	3.11	4.14	155	16.2	5,847
Annual	—	—	—	—	—
Apartments Low Rise	0.51	0.65	22.5	2.36	880
Total	0.51	0.65	22.5	2.36	880

4.1.2. Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	2.43	2.57	111	11.6	4,496
Total	2.43	2.57	111	11.6	4,496
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	2.22	2.95	111	11.6	4,175
Total	2.22	2.95	111	11.6	4,175
Annual	—	—	—	—	—
Apartments Low Rise	0.36	0.46	16.0	1.69	628
Total	0.36	0.46	16.0	1.69	628

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	163
Total	—	—	—	—	163
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	163
Total	—	—	—	—	163
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	27.0
Total	—	—	—	—	27.0

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	163
Total	—	—	—	—	163
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	163
Total	—	—	—	—	163
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	27.0
Total	—	—	—	—	27.0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	0.02	317
Total	0.01	0.25	0.02	0.02	317
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	0.02	317
Total	0.01	0.25	0.02	0.02	317
Annual	—	—	—	—	—
Apartments Low Rise	< 0.005	0.05	< 0.005	< 0.005	52.6
Total	< 0.005	0.05	< 0.005	< 0.005	52.6

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	0.02	317
Total	0.01	0.25	0.02	0.02	317
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	0.02	317
Total	0.01	0.25	0.02	0.02	317
Annual	—	—	—	—	—
Apartments Low Rise	< 0.005	0.05	< 0.005	< 0.005	52.6
Total	< 0.005	0.05	< 0.005	< 0.005	52.6

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.47	—	—	—	—
Architectural Coatings	0.59	—	—	—	—
Landscape Equipment	0.33	0.04	< 0.005	< 0.005	9.89
Total	2.39	0.04	< 0.005	< 0.005	9.89
Daily, Winter (Max)	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.47	—	—	—	—
Architectural Coatings	0.59	—	—	—	—
Total	2.07	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.27	—	—	—	—
Architectural Coatings	0.11	—	—	—	—
Landscape Equipment	0.03	< 0.005	< 0.005	< 0.005	0.81
Total	0.41	< 0.005	< 0.005	< 0.005	0.81

4.3.2. Mitigated

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

Source	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—

Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.47	—	—	—	—
Architectural Coatings	0.59	—	—	—	—
Landscape Equipment	0.33	0.04	< 0.005	< 0.005	9.89
Total	2.39	0.04	< 0.005	< 0.005	9.89
Daily, Winter (Max)	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.47	—	—	—	—
Architectural Coatings	0.59	—	—	—	—
Total	2.07	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.27	—	—	—	—
Architectural Coatings	0.11	—	—	—	—
Landscape Equipment	0.03	< 0.005	< 0.005	< 0.005	0.81
Total	0.41	< 0.005	< 0.005	< 0.005	0.81

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	20.8
Total	—	—	—	—	20.8
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	20.8

Total	—	—	—	—	20.8
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	3.44
Total	—	—	—	—	3.44

4.4.2. Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	20.8
Total	—	—	—	—	20.8
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	20.8
Total	—	—	—	—	20.8
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	3.44
Total	—	—	—	—	3.44

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	90.6
Total	—	—	—	—	90.6
Daily, Winter (Max)	—	—	—	—	—

Apartments Low Rise	—	—	—	—	90.6
Total	—	—	—	—	90.6
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	15.0
Total	—	—	—	—	15.0

4.5.2. Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	90.6
Total	—	—	—	—	90.6
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	90.6
Total	—	—	—	—	90.6
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	15.0
Total	—	—	—	—	15.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.49
Total	—	—	—	—	0.49

Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.49
Total	—	—	—	—	0.49
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.08
Total	—	—	—	—	0.08

4.6.2. Mitigated

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.49
Total	—	—	—	—	0.49
Daily, Winter (Max)	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.49
Total	—	—	—	—	0.49
Annual	—	—	—	—	—
Apartments Low Rise	—	—	—	—	0.08
Total	—	—	—	—	0.08

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—

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

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

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

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Avoided	—	—	—	—	—
Subtotal	—	—	—	—	—
Sequestered	—	—	—	—	—
Subtotal	—	—	—	—	—
Removed	—	—	—	—	—
Subtotal	—	—	—	—	—
—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Avoided	—	—	—	—	—
Subtotal	—	—	—	—	—
Sequestered	—	—	—	—	—
Subtotal	—	—	—	—	—
Removed	—	—	—	—	—
Subtotal	—	—	—	—	—
—	—	—	—	—	—
Annual	—	—	—	—	—
Avoided	—	—	—	—	—
Subtotal	—	—	—	—	—
Sequestered	—	—	—	—	—
Subtotal	—	—	—	—	—
Removed	—	—	—	—	—
Subtotal	—	—	—	—	—
—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

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

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

Land Use	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Total	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Total	—	—	—	—	—
Annual	—	—	—	—	—
Total	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—
Avoided	—	—	—	—	—
Subtotal	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/30/2024	1/6/2025	5.00	5.00	—

Grading	Grading	1/7/2025	1/18/2025	5.00	8.00	—
Building Construction	Building Construction	1/19/2025	12/7/2025	5.00	230	—
Paving	Paving	12/8/2025	1/2/2026	5.00	18.0	—
Architectural Coating	Architectural Coating	1/3/2026	1/28/2026	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/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Tractors/Loaders/Backhoes	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
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
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
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	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56

Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	6.00	89.0	0.36
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	46.8	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	6.95	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	14.3	LDA,LDT1,LDT2

Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	9.36	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	46.8	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	6.95	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	20.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	9.36	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	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	139,523	46,508	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	1.00

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Low Rise	1.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	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	476	529	408	172,921	6,256	6,957	5,367	2,273,539

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	340	378	291	123,466	4,467	4,967	3,832	1,623,307

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	100
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	100
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
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)
139522.5	46,508	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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	288,916	204	0.0330	0.0040	987,944

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	288,916	204	0.0330	0.0040	987,944

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	2,079,022	13,117

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	2,079,022	13,117

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	48.0	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	48.0	—

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

5.14.2. Mitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	28.5	annual days of extreme heat
Extreme Precipitation	12.3	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.1	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	1	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	1	0	0	N/A

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	2	1
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	2	1
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

6.4. Climate Risk Reduction Measures

6.4.1. Wildfire

User Selected Measures	Co-Benefits Achieved	Exposure Reduction	Sensitivity Reduction	Adaptive Capacity Increase

MH-27: Provide Greater Affordable Housing Options	Improved Public Health, Social Equity	—	1.00	2.00

6.4.2. Temperature and Extreme Heat

User Selected Measures	Co-Benefits Achieved	Exposure Reduction	Sensitivity Reduction	Adaptive Capacity Increase
MH-27: Provide Greater Affordable Housing Options	Improved Public Health, Social Equity	—	1.00	2.00

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	76.9
AQ-PM	10.6
AQ-DPM	2.56
Drinking Water	29.7
Lead Risk Housing	25.5
Pesticides	47.0
Toxic Releases	12.6
Traffic	11.8
Effect Indicators	—
CleanUp Sites	2.07
Groundwater	55.6
Haz Waste Facilities/Generators	1.80
Impaired Water Bodies	0.00
Solid Waste	87.7

Sensitive Population	—
Asthma	76.7
Cardio-vascular	56.7
Low Birth Weights	31.3
Socioeconomic Factor Indicators	—
Education	36.9
Housing	28.7
Linguistic	18.1
Poverty	35.8
Unemployment	71.7

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	55.04940331
Employed	4.516874118
Median HI	39.99743359
Education	—
Bachelor's or higher	29.23136148
High school enrollment	100
Preschool enrollment	86.06441678
Transportation	—
Auto Access	69.12613884
Active commuting	51.72590787
Social	—
2-parent households	36.75093032

Voting	86.06441678
Neighborhood	—
Alcohol availability	88.68215065
Park access	11.51032978
Retail density	10.99704863
Supermarket access	4.927499038
Tree canopy	98.31900423
Housing	—
Homeownership	84.30642885
Housing habitability	59.86141409
Low-inc homeowner severe housing cost burden	23.3927884
Low-inc renter severe housing cost burden	18.72192994
Uncrowded housing	83.16437829
Health Outcomes	—
Insured adults	74.96471192
Arthritis	0.0
Asthma ER Admissions	35.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	29.7
Cognitively Disabled	24.2
Physically Disabled	2.0
Heart Attack ER Admissions	56.1

Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.2
SLR Inundation Area	0.0
Children	59.5
Elderly	9.5
English Speaking	94.7
Foreign-born	3.0
Outdoor Workers	42.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	95.2
Traffic Density	23.7
Traffic Access	0.0
Other Indices	—
Hardship	57.2
Other Decision Support	—
2016 Voting	80.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	50.0
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

This table summarizes the points earned for each health and equity measure category, and the total possible points for each category. If N/A is selected for any measure(s), the total possible points in that category are reduced accordingly. The points for each category are then weighted on a 15-point scale to determine the score per category and a total weighted score.

Category	Number of Applicable Measures	Total Points Earned by Applicable Measures	Max Possible Points	Weighted Score
Community-Centered Development	5.00	0.00	25.0	0.00
Inclusive Engagement	6.00	0.00	30.0	0.00
Accountability	5.00	0.00	25.0	0.00
Construction Equity	5.00	0.00	25.0	0.00
Public Health and Air Quality	4.00	0.00	20.0	0.00
Inclusive Economics & Prosperity	4.00	0.00	20.0	0.00
Inclusive Communities	8.00	0.00	40.0	0.00
Total	37.0	0.00	185	0.00

Based on the weighted score of 0 out of a total 185 possible points, your project qualifies for the Acorn equity award level.
Organization(s) consulted by the user to complete the Health & Equity Scorecard:

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Detail from project description.
Construction: Construction Phases	No structures on the site - demolition deleted.
Construction: Paving	Assume one acre for parking lot and entrance.
Operations: Hearths	No wood stoves or fireplaces included in the project description.