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June 1, 2026

Even Gerber
Bunker Hill Lofts, LLC
5721 Meadows Del Mar
San Diego, CA 92130

RE: Bunker Hill Lofts Mixed-Use Residential Development (APNs 424-321-03 and 424-321-04) Air Quality Screening Letter – City of San Diego, California

The purpose of this Air Quality (AQ) screening letter is to identify any impacts, if any, which may be created from the construction and operation of the proposed Bunker Hill Lofts project located at 2917 Bunker Hill Street in the City of San Diego "City". The Project would redevelop an approximately 6,231.92-square-foot (0.143-acre) vacant site with a new three-story multifamily residential building containing 20 dwelling units and approximately 13,981 square feet of floor area. Construction is anticipated to begin in January 2027 and be completed in roughly six months.

In addition, this analysis has been prepared to address Mitigation Measures AQ-2 and AQ-4 of the Balboa Avenue Station Area Specific Plan Environmental Impact Report (EIR), which requires evaluation of construction and operational air quality impacts utilizing the latest available CalEEMod model approved by the City.

Project Design Features

Project design features (PDFs) have been included in this Project. The applicant has agreed to implement all PDFs and will be included in the Project's Conditions of Approval. The following PDFs applied in this analysis with the purpose of reducing GHG emissions included.

Construction PDFs

1. Project-related construction equipment shall use Tier 4 construction equipment, as defined by United States Environmental Protection Agency (EPA) (EPA, 2018)/ California Air Resources Board (CARB) standards (CARB, 2012).

Operations PDFs

2. The Project will not install hearth options in all 20 residential units.
3. The Project will be designed to use 100 percent electric energy for all Project operations. Natural gas lines will not be installed onsite.

The design measures described above shall be incorporated into the site plan, building plans and landscape plan for the Project as applicable to ensure implementation. Prior to issuance of each permit, consistency with the applicable plans and the PDFs will be confirmed by the City of San Diego. The City will ensure that the sustainable design measures on all such plans for the Project are implemented.

Thresholds of Significance

The San Diego Air Pollution Control District (SDAPCD) has established recommended screening Level Thresholds¹ in Rule 20.2 for evaluating potential air quality impacts. These thresholds have been adopted by the City of San Diego as Screening Level Thresholds (SLTs) for determining significance under the California Environmental Quality Act (CEQA).

To determine whether the proposed Project would result in significant air quality impacts, Project-related construction and operational emissions were compared to the applicable SDAPCD SLTs. The daily emission screening thresholds for construction and operational activities are presented in Table 1 on the following page.

Toxic Air Contaminants (TACs) are also regulated by SDAPCD. At no time shall the Project increase the incremental cancer risk to over ten in one million and at no time shall the Project increase the health hazard index (chronic and acute) by greater than one.

¹ City SLTs are tied to achieving or maintaining attainment designations with the NAAQS and CAAQS. The federal and State ambient air quality standards, in turn, are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health.

Table 1: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)		
Construction Emissions			
Respirable Particulate Matter (PM ₁₀)	100		
Fine Particulate Matter (PM _{2.5})	55		
Nitrogen Oxide (NO _x)	250		
Sulfur Oxide (SO _x)	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOCs)	75		
Operational Emissions			
	Pounds/Hour	Pounds/Day	Tons per Year
Respirable Particulate Matter (PM ₁₀)		100	15
Fine Particulate Matter (PM _{2.5})		55	10
Nitrogen Oxide (NO _x)	25	250	40
Sulfur Oxide (SO _x)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds		3.2	0.6
Volatile Organic Compounds (VOCs)		75	15

Methodology

Construction Emissions Calculation Methodology

Air Quality impacts related to construction will be calculated using the latest CalEEMod 2022.1.1.43 air quality model which was developed by South Coast Air Quality Management District (SCAQMD). The CalEEMod input/output are provided in ***Attachment A*** to this report.

The California Air Resources Board (CARB) regulations required, starting in 2012, that all off-road equipment produced needs to meet the basic requirements for Tier 4 compliance (Tier 4 Interim) (CARB, 2023). Offroad equipment fleets are managed by CARB and are typically based on total horsepower owned. Owners are limited to what types of equipment they must maintain as their fleet and can include equipment from rental companies. After 2023, no fleet owner can add equipment less than Tier 3 to their fleet (California Air Resources Board, 2022).

As a Project Design Feature (PDF), all off-road construction equipment would utilize Tier 4 engines certified by the U.S. EPA and CARB. This requirement was incorporated into the CalEEMod analysis and would be included as a condition of Project approval to minimize construction-related air pollutant emissions.

Construction Health Risks

As noted above, TACs are regulated by the SDAPCD. The primary TAC associated with construction activities is diesel particulate matter (DPM), which is emitted from off-road diesel-powered equipment. At no time shall the Project increase the incremental cancer risk to over ten in one million and at no time shall the Project increase the health hazard index (chronic and acute) by greater than one.

Health risks are evaluated by estimating DPM concentrations at nearby receptors and applying the risk calculation procedures recommended by the Office of Environmental Health Hazard Assessment (OEHHA) (OEHHA, 2015).

The AERSCREEN dispersion model was used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model identifies the maximum exposure distance and concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects. Diesel exhaust emissions can be estimated using the annual PM₁₀ exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration.

AERSCREEN is the EPA's recommended screening-level dispersion model and is based on AERMOD. The model is utilized as a screening tool to identify the maximum potential concentrations and health risks. AERMOD is available as a refined modeling approach if warranted by the screening results. The AERSCREEN input/output files for the proposed Project are shown in **Attachment B** of this report.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The cancer risk dose calculation is defined in Equation 1 (OEHHA, 2015):

$$\text{Equation 1} \quad \text{Dose}_{\text{air}} = C_{\text{air}} * (BR/BW) * A * EF * (1 \times 10^{-6})$$

Dose _{air}	=	Dose through inhalation (mg/kg/d)
C _{air}	=	Concentration in air (µg/m ³) – dispersion models predict a 1-hr concentration and is corrected to an annual average concentration by multiplying the 1-hr average by 0.10 (US EPA, 2021)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 (OEHHA, 2015) for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)

EF = Exposure frequency (unitless, days/365 days)
1x10⁻⁶ = Milligrams to micrograms conversion (10⁻³ mg/ µg), cubic meters to
liters conversion (10⁻³ m³/l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. The excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within **Attachment C** to this report. The cancer risk calculation is defined in Equation 2 (OEHHA, 2015):

Equation 2

$$RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

RISK_{inh-res} = Residential inhalation cancer risk
DOSE_{air} = Daily inhalation dose (mg/kg-day)
CPF = Inhalation cancer potency factor (mg/kg-day⁻¹)
ASF = Age sensitivity factor for a specified age group (unitless)
ED = Exposure duration (in years) for a specified age group
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless) Note: Assumed 1 if a school is within one mile of the Project site.

The Office of Environmental Health Hazard Assessment (OEHHA) recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Exposure durations of 9-years and 70-years are recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years. Since construction activities will only be just over 12 months, only the 3rd trimester and 0<2 age bins are used to determine the cancer risk exposure over the construction duration.

Chronic Non-Cancer risks are also known with respect to diesel particulate matter (DPM) and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health Hazard Assessment (OEHHA, 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system.

Operational Emissions Calculation Methodology

Operational emissions were calculated using CalEEMod Version 2022.1.1.43 utilizing the multifamily residential land use assumptions embedded within the model for a 20-unit apartment project. Project Design Features (PDFs), including an all-electric design and the exclusion of hearths within residential units, were incorporated into the analysis. The CalEEMod inputs and outputs are included in ***Attachment A***.

Findings

Construction Findings

Utilizing the CalEEMod inputs for the model as discussed above and shown in ***Attachment A*** to this report, we find that construction of the project generates less than significant impacts based on City SLTs (see Table 2 below). Based on this, air quality mitigation for construction would not be required. Cumulative impacts would not be expected since calculated emissions are significantly below SDAPCD thresholds.

Table 2: Expected Daily Construction Emissions Summary Lb/Day

Year	ROG	NO_x	CO	SO₂	PM₁₀ (Total)	PM_{2.5} (Total)
2027(lb/day)	8.97	5.19	9.80	0.02	0.90	0.27
Threshold (lb/day)	75	250	550	250	100	55
Percent Below SLTs	-88.04%	-97.92%	-98.22%	-99.99%	-99.10%	-99.51%
SDAPCD Impact?	No	No	No	No	No	No

Temporary odors associated with construction activities such as paving and painting would be short term in nature and considered less than significant. Construction odor impacts would therefore be less than significant.

Construction Health Risk

The proposed Project will incorporate Tier 4 construction equipment during the grading and construction of the proposed Project. Based upon the air quality modeling, worst-case PM10 from exhaust onsite during each of the construction tasks would cumulatively produce 0.00132 tons over the construction duration 158-days or an average of 0.0000873 grams/second.

Utilizing the AERSCREEN dispersion model, we find that the worst-case annual concentration would be 0.1126 µg/m³ during construction. Utilizing the risk equation identified above in

Section 3.1, the inhalation cancer risk for the worst-case receptor was found to be 9.55 per one million exposed which would be considered less than significant. Tier 4 equipment will be utilized as a design feature and as a condition of the Project. Based on the modeling with these assumptions, the Project construction activities would generate less than significant cancer health risks. As noted above, construction health risk calculations are provided in **Attachment C** to this report.

There are also known acute and chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the hourly and annual concentrations of 1.126 and 0.1126 $\mu\text{g}/\text{m}^3$ divided by the Chronic REL of 5 $\mu\text{g}/\text{m}^3$ yields a Health Hazard Index of less than one or 0.23 or less. Therefore, no acute or chronic non-cancer risks are expected, and all health risks are considered less than significant.

Operations Findings

Utilizing the CalEEMod outputs as shown in Table 3 below, we find that operations of the Project generate less than significant impacts based on SDAPCD significance thresholds. Table 3 shows the maximum daily operational emissions, but it should be noted that these maximum daily emissions are even lower than hourly significance thresholds shown in Table 1 above. Furthermore, annual SLTs shown in Table 1 would not be exceeded, which can be verified in emission outputs provided in **Attachment A** to this report. Given this, air quality mitigation for operations would not be required. In addition, cumulative operational impacts would not be expected since operation emissions are so low when compared to the City's significance thresholds.

Table 3: Maximum Operational Emissions (lb/day)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Mobile Source Emission Estimates	0.58	0.39	3.78	0.01	0.83	0.22
Area Source Emission Estimates	0.42	0.01	1.14	0.00	0.00	0.00
Energy Source Emission Estimates	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.00	0.40	4.92	0.01	0.83	0.22
City Screening Threshold	75	250	550	250	100	55
Exceeds Screening Threshold	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod						

The Project proposes residential uses, which are not typically associated with the generation of odors considered offensive to people. Given this, a less than significant operational odor impact would be expected from the Project.

CEQA Conclusions

Conflict with or obstruct implementation of the applicable air quality plan?

The project has been shown to generate emissions that would be less than significant and would comply with the City of San Diego's general plan. Since the project is compatible with the City's general plan and since project emissions would not exceed SDAPCD air quality thresholds, the project would not conflict with the implementation of the City's or SDAPCDs air quality management plans.

Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The Project would generate less than significant construction and operational air quality emissions when compared to SDAPCD air quality thresholds, given this, the Project would not violate any applicable air quality standards.

Expose sensitive receptors to substantial pollutant concentrations?

Based on this analysis, the expected construction and operational air quality emissions were found to be less than significant when compared to SDAPCD air quality thresholds. Construction-related DPM health risks were evaluated and were found to result in a maximum cancer risk of 9.55 in one million and a hazard index of less than 1.0 which is considered less than significant. In addition, operational emissions are below SDAPCD screening thresholds. Given this, the Project would not expose sensitive receptors to substantial pollutant concentrations, and impacts would be less than significant.

Result in other emissions (such as those leading to odors adversely affecting a substantial number of people?

The Project would have the potential to generate onsite odors during construction which normally include short-term activities such as paving and painting. Impacts associated with these sources are short term and would therefore be considered less than significant. Also, since operational odors are not typically generated within residential uses, a less than significant

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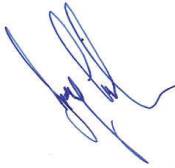
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odor impact would be expected from Operations. Given this, the Project would not create a significant odor impact affecting a substantial number of people.

Given this, the project would generate less than significant AQ emissions. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,

Ldn Consulting, Inc.



Jeremy Loudon

Attachment A: CalEEMod Model Results

Attachment B: AERMOD – Construction Emissions

Attachment C: Cancer Risk Calculations

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Bunker Hill MF Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Bunker Hill MF
Construction Start Date	1/1/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	19.8000
Location	2917 Bunker Hill St, San Diego, CA 92109, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6311
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.44

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	20.0000	Dwelling Unit	0.14300	14,000.0	1,000.000	—	56.0000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-15	Require All-Electric Development

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.96998	1.39537	9.80397	0.01413	0.02776	0.15982	0.18758	0.02776	0.03804	0.06579	—	1,647.17	1,647.17	0.06751	0.02458	0.62658	1,656.81
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.17460	5.18907	8.65142	0.02424	0.06523	0.83236	0.89759	0.04686	0.22407	0.27093	—	3,440.97	3,440.97	0.17008	0.45897	0.15069	3,582.14
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29244	0.30055	2.56513	0.00381	0.00788	0.04706	0.05494	0.00772	0.01133	0.01905	—	457.055	457.055	0.01914	0.01034	0.08884	460.703
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05337	0.05485	0.46814	0.00069	0.00144	0.00859	0.01003	0.00141	0.00207	0.00348	—	75.6707	75.6707	0.00317	0.00171	0.01471	76.2746

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Attachment: A

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.96998	1.39537	9.80397	0.01413	0.02776	0.15982	0.18758	0.02776	0.03804	0.06579	—	1,647.17	1,647.17	0.06751	0.02458	0.62658	1,656.81
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.17460	5.18907	8.65142	0.02424	0.06523	0.83236	0.89759	0.04686	0.22407	0.27093	—	3,440.97	3,440.97	0.17008	0.45897	0.15069	3,582.14
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.29244	0.30055	2.56513	0.00381	0.00788	0.04706	0.05494	0.00772	0.01133	0.01905	—	457.055	457.055	0.01914	0.01034	0.08884	460.703
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05337	0.05485	0.46814	0.00069	0.00144	0.00859	0.01003	0.00141	0.00207	0.00348	—	75.6707	75.6707	0.00317	0.00171	0.01471	76.2746

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.90725	1.28791	9.06511	0.01377	0.02704	0.00000	0.02704	0.02704	0.00000	0.02704	—	1,437.86	1,437.86	0.05833	0.01167	0.00000	1,442.80
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.12344	2.54480	8.10192	0.01205	0.02469	0.21595	0.22895	0.02469	0.03270	0.04569	—	1,304.35	1,304.35	0.05291	0.01058	0.00000	1,308.83
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.27691	0.23711	2.38962	0.00354	0.00721	0.00133	0.00854	0.00721	0.00020	0.00741	—	381.498	381.498	0.01548	0.00310	0.00000	382.807
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05054	0.04327	0.43611	0.00065	0.00132	0.00024	0.00156	0.00132	0.00004	0.00135	—	63.1614	63.1614	0.00256	0.00051	0.00000	63.3781

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2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06273	0.10746	0.73886	0.00036	0.00072	0.15982	0.16054	0.00072	0.03804	0.03876	—	209.303	209.303	0.00918	0.01291	0.62658	214.007
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.07874	3.77704	1.60841	0.01929	0.05512	0.81479	0.86990	0.03674	0.22141	0.25815	—	2,905.72	2,905.72	0.14837	0.45463	0.15069	3,045.05
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.01553	0.06343	0.17551	0.00026	0.00067	0.04574	0.04640	0.00051	0.01113	0.01164	—	75.5569	75.5569	0.00367	0.00724	0.08884	77.8954
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00283	0.01158	0.03203	0.00005	0.00012	0.00835	0.00847	0.00009	0.00203	0.00212	—	12.5093	12.5093	0.00061	0.00120	0.01471	12.8965

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.96998	1.39537	9.80397	0.01413	0.02776	0.15982	0.18758	0.02776	0.03804	0.06579	—	1,647.17	1,647.17	0.06751	0.02458	0.62658	1,656.81
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.17460	5.18907	8.65142	0.02424	0.06523	0.83236	0.89759	0.04686	0.22407	0.27093	—	3,440.97	3,440.97	0.17008	0.45897	0.15069	3,582.14
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.29244	0.30055	2.56513	0.00381	0.00788	0.04706	0.05494	0.00772	0.01133	0.01905	—	457.055	457.055	0.01914	0.01034	0.08884	460.703

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Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05337	0.05485	0.46814	0.00069	0.00144	0.00859	0.01003	0.00141	0.00207	0.00348	—	75.6707	75.6707	0.00317	0.00171	0.01471	76.2746

2.2.5. Onsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	8.90725	1.28791	9.06511	0.01377	0.02704	0.00000	0.02704	0.02704	0.00000	0.02704	—	1,437.86	1,437.86	0.05833	0.01167	0.00000	1,442.80
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.12344	2.54480	8.10192	0.01205	0.02469	0.21595	0.22895	0.02469	0.03270	0.04569	—	1,304.35	1,304.35	0.05291	0.01058	0.00000	1,308.83
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.27691	0.23711	2.38962	0.00354	0.00721	0.00133	0.00854	0.00721	0.00020	0.00741	—	381.498	381.498	0.01548	0.00310	0.00000	382.807
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05054	0.04327	0.43611	0.00065	0.00132	0.00024	0.00156	0.00132	0.00004	0.00135	—	63.1614	63.1614	0.00256	0.00051	0.00000	63.3781

2.2.6. Offsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06273	0.10746	0.73886	0.00036	0.00072	0.15982	0.16054	0.00072	0.03804	0.03876	—	209.303	209.303	0.00918	0.01291	0.62658	214.007
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.07874	3.77704	1.60841	0.01929	0.05512	0.81479	0.86990	0.03674	0.22141	0.25815	—	2,905.72	2,905.72	0.14837	0.45463	0.15069	3,045.05

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.01553	0.06343	0.17551	0.00026	0.00067	0.04574	0.04640	0.00051	0.01113	0.01164	—	75.5569	75.5569	0.00367	0.00724	0.08884	77.8954
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00283	0.01158	0.03203	0.00005	0.00012	0.00835	0.00847	0.00009	0.00203	0.00212	—	12.5093	12.5093	0.00061	0.00120	0.01471	12.8965

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.00509	0.43080	4.94619	0.00967	0.01277	0.82686	0.83963	0.01220	0.20972	0.22192	9.34559	1,034.42	1,043.76	0.99726	0.04086	2.65502	1,083.52
Mit.	1.00108	0.36230	4.91704	0.00923	0.00723	0.82686	0.83409	0.00666	0.20972	0.21638	9.34559	947.633	956.979	0.98969	0.04071	2.65502	996.507
% Reduced	< 0.5%	16%	1%	—	43%	—	1%	45%	—	2%	—	8%	8%	1%	—	—	8%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.89489	0.45465	3.63872	0.00921	0.01224	0.82686	0.83910	0.01180	0.20972	0.22152	9.34559	990.192	999.537	1.00027	0.04305	0.16651	1,037.54
Mit.	0.89088	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	9.34559	903.409	912.755	0.99270	0.04290	0.16651	950.523
% Reduced	< 0.5%	15%	1%	—	45%	—	1%	47%	—	3%	—	9%	9%	1%	—	—	8%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87769	0.41467	3.80832	0.00837	0.01180	0.73095	0.74276	0.01134	0.18543	0.19677	9.34559	903.736	913.082	0.99446	0.03862	1.08800	950.541
Mit.	0.87368	0.34617	3.77917	0.00793	0.00626	0.73095	0.73722	0.00580	0.18543	0.19124	9.34559	816.954	826.299	0.98689	0.03848	1.08800	863.525
% Reduced	< 0.5%	17%	1%	—	47%	—	1%	49%	—	3%	—	10%	10%	1%	—	—	9%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unmit.	0.16018	0.07568	0.69502	0.00153	0.00215	0.13340	0.13555	0.00207	0.03384	0.03591	1.54727	149.624	151.171	0.16464	0.00639	0.18013	157.373
Mit.	0.15945	0.06318	0.68970	0.00145	0.00114	0.13340	0.13454	0.00106	0.03384	0.03490	1.54727	135.256	136.803	0.16339	0.00637	0.18013	142.966
% Reduced	< 0.5%	17%	1%	5%	47%	—	1%	49%	—	3%	—	10%	10%	1%	< 0.5%	—	9%

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Area	0.42250	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	0.00000	3.03375	3.03375	0.00013	0.00003	—	3.04442
Energy	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	95.5827	95.5827	0.01401	0.00093	—	96.2100
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	1.00509	0.43080	4.94619	0.00967	0.01277	0.82686	0.83963	0.01220	0.20972	0.22192	9.34559	1,034.42	1,043.76	0.99726	0.04086	2.65502	1,083.52
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Area	0.32361	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	95.5827	95.5827	0.01401	0.00093	—	96.2100
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	0.89489	0.45465	3.63872	0.00921	0.01224	0.82686	0.83910	0.01180	0.20972	0.22152	9.34559	990.192	999.537	1.00027	0.04305	0.16651	1,037.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Mobile	0.50130	0.34087	3.21862	0.00791	0.00600	0.73095	0.73695	0.00561	0.18543	0.19104	—	806.054	806.054	0.04240	0.03435	0.98773	818.338
Area	0.37238	0.00530	0.56055	0.00002	0.00026	—	0.00026	0.00020	—	0.00020	0.00000	1.49609	1.49609	0.00006	0.00001	—	1.50136
Energy	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	95.5827	95.5827	0.01401	0.00093	—	96.2100
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	0.87769	0.41467	3.80832	0.00837	0.01180	0.73095	0.74276	0.01134	0.18543	0.19677	9.34559	903.736	913.082	0.99446	0.03862	1.08800	950.541
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485
Area	0.06796	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24770	0.24770	0.00001	< 0.000005	—	0.24857
Energy	0.00073	0.01250	0.00532	0.00008	0.00101	—	0.00101	0.00101	—	0.00101	—	15.8248	15.8248	0.00232	0.00015	—	15.9287
Water	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052
Waste	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660
Total	0.16018	0.07568	0.69502	0.00153	0.00215	0.13340	0.13555	0.00207	0.03384	0.03591	1.54727	149.624	151.171	0.16464	0.00639	0.18013	157.373

2.5. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Area	0.42250	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	0.00000	3.03375	3.03375	0.00013	0.00003	—	3.04442
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027

Total	1.00108	0.36230	4.91704	0.00923	0.00723	0.82686	0.83409	0.00666	0.20972	0.21638	9.34559	947.633	956.979	0.98969	0.04071	2.65502	996.507
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Area	0.32361	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	0.89088	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	9.34559	903.409	912.755	0.99270	0.04290	0.16651	950.523
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.50130	0.34087	3.21862	0.00791	0.00600	0.73095	0.73695	0.00561	0.18543	0.19104	—	806.054	806.054	0.04240	0.03435	0.98773	818.338
Area	0.37238	0.00530	0.56055	0.00002	0.00026	—	0.00026	0.00020	—	0.00020	0.00000	1.49609	1.49609	0.00006	0.00001	—	1.50136
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Water	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Waste	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	0.87368	0.34617	3.77917	0.00793	0.00626	0.73095	0.73722	0.00580	0.18543	0.19124	9.34559	816.954	826.299	0.98689	0.03848	1.08800	863.525
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485
Area	0.06796	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24770	0.24770	0.00001	< 0.000005	—	0.24857
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	1.45697	1.45697	0.00107	0.00013	—	1.52213
Water	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052
Waste	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660
Total	0.15945	0.06318	0.68970	0.00145	0.00114	0.13340	0.13454	0.00106	0.03384	0.03490	1.54727	135.256	136.803	0.16339	0.00637	0.18013	142.966

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10049	2.54480	4.97742	0.00743	0.01299	—	0.01299	0.01299	—	0.01299	—	706.693	706.693	0.02867	0.00573	—	709.118
Demolition	—	—	—	—	—	0.21595	0.21595	—	0.03270	0.03270	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00055	0.01394	0.02727	0.00004	0.00007	—	0.00007	0.00007	—	0.00007	—	3.87229	3.87229	0.00016	0.00003	—	3.88558
Demolition	—	—	—	—	—	0.00118	0.00118	—	0.00018	0.00018	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00010	0.00254	0.00498	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.64110	0.64110	0.00003	0.00001	—	0.64330
Demolition	—	—	—	—	—	0.00022	0.00022	—	0.00003	0.00003	—	—	—	—	—	—	—

Attachment: A

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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3.1.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02578	0.02310	0.27000	0.00000	0.00000	0.06343	0.06343	0.00000	0.01487	0.01487	—	64.7251	64.7251	0.00347	0.00264	0.00575	65.6044
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00369	0.22570	0.08570	0.00116	0.00331	0.04635	0.04966	0.00220	0.01269	0.01489	—	171.754	171.754	0.00876	0.02717	0.00881	180.079
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00002	0.00124	0.00047	0.00001	0.00002	0.00025	0.00027	0.00001	0.00007	0.00008	—	0.94089	0.94089	0.00005	0.00015	0.00080	0.98717
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	< 0.000005	0.00023	0.00009	< 0.000005	< 0.000005	0.00005	0.00005	< 0.000005	0.00001	0.00001	—	0.15578	0.15578	0.00001	0.00002	0.00013	0.16344

3.1.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10049	2.54480	4.97742	0.00743	0.01299	—	0.01299	0.01299	—	0.01299	—	706.693	706.693	0.02867	0.00573	—	709.118
Demolition	—	—	—	—	—	0.21595	0.21595	—	0.03270	0.03270	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00055	0.01394	0.02727	0.00004	0.00007	—	0.00007	0.00007	—	0.00007	—	3.87229	3.87229	0.00016	0.00003	—	3.88558
Demolition	—	—	—	—	—	0.00118	0.00118	—	0.00018	0.00018	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00010	0.00254	0.00498	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.64110	0.64110	0.00003	0.00001	—	0.64330
Demolition	—	—	—	—	—	0.00022	0.00022	—	0.00003	0.00003	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - Mitigated

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

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

Attachment: A

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02578	0.02310	0.27000	0.00000	0.00000	0.06343	0.06343	0.00000	0.01487	0.01487	—	64.7251	64.7251	0.00347	0.00264	0.00575	65.6044
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00369	0.22570	0.08570	0.00116	0.00331	0.04635	0.04966	0.00220	0.01269	0.01489	—	171.754	171.754	0.00876	0.02717	0.00881	180.079
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00002	0.00124	0.00047	0.00001	0.00002	0.00025	0.00027	0.00001	0.00007	0.00008	—	0.94089	0.94089	0.00005	0.00015	0.00080	0.98717
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	< 0.000005	0.00023	0.00009	< 0.000005	< 0.000005	0.00005	0.00005	< 0.000005	0.00001	0.00001	—	0.15578	0.15578	0.00001	0.00002	0.00013	0.16344

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06911	1.41203	3.74248	0.00494	0.01011	—	0.01011	0.01011	—	0.01011	—	535.252	535.252	0.02171	0.00434	—	537.089

Attachment: A

Dust From Material Movement	—	—	—	—	—	0.01757	0.01757	—	0.00266	0.00266	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00057	0.01161	0.03076	0.00004	0.00008	—	0.00008	0.00008	—	0.00008	—	4.39933	4.39933	0.00018	0.00004	—	4.41443
Dust From Material Movement	—	—	—	—	—	0.00014	0.00014	—	0.00002	0.00002	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00010	0.00212	0.00561	0.00001	0.00002	—	0.00002	0.00002	—	0.00002	—	0.72836	0.72836	0.00003	0.00001	—	0.73086
Dust From Material Movement	—	—	—	—	—	0.00003	0.00003	—	< 0.000005	< 0.000005	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

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

Worker	0.01719	0.01540	0.18000	0.00000	0.00000	0.04229	0.04229	0.00000	0.00991	0.00991	—	43.1500	43.1500	0.00231	0.00176	0.00383	43.7363
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.06155	3.76164	1.42841	0.01929	0.05512	0.77250	0.82762	0.03674	0.21150	0.24824	—	2,862.57	2,862.57	0.14606	0.45287	0.14686	3,001.32
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00052	0.03093	0.01167	0.00016	0.00045	0.00629	0.00674	0.00030	0.00172	0.00202	—	23.5223	23.5223	0.00120	0.00371	0.02008	24.6793
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00010	0.00564	0.00213	0.00003	0.00008	0.00115	0.00123	0.00006	0.00031	0.00037	—	3.89438	3.89438	0.00020	0.00062	0.00332	4.08595

3.2.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06911	1.41203	3.74248	0.00494	0.01011	—	0.01011	0.01011	—	0.01011	—	535.252	535.252	0.02171	0.00434	—	537.089
Dust From Material Movement	—	—	—	—	—	0.01757	0.01757	—	0.00266	0.00266	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00057	0.01161	0.03076	0.00004	0.00008	—	0.00008	0.00008	—	0.00008	—	4.39933	4.39933	0.00018	0.00004	—	4.41443
Dust From Material Movement	—	—	—	—	—	0.00014	0.00014	—	0.00002	0.00002	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00010	0.00212	0.00561	0.00001	0.00002	—	0.00002	0.00002	—	0.00002	—	0.72836	0.72836	0.00003	0.00001	—	0.73086
Dust From Material Movement	—	—	—	—	—	0.00003	0.00003	—	< 0.000005	< 0.000005	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01719	0.01540	0.18000	0.00000	0.00000	0.04229	0.04229	0.00000	0.00991	0.00991	—	43.1500	43.1500	0.00231	0.00176	0.00383	43.7363
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.06155	3.76164	1.42841	0.01929	0.05512	0.77250	0.82762	0.03674	0.21150	0.24824	—	2,862.57	2,862.57	0.14606	0.45287	0.14686	3,001.32
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Attachment: A

Hauling	0.00052	0.03093	0.01167	0.00016	0.00045	0.00629	0.00674	0.00030	0.00172	0.00202	—	23.5223	23.5223	0.00120	0.00371	0.02008	24.6793
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00010	0.00564	0.00213	0.00003	0.00008	0.00115	0.00123	0.00006	0.00031	0.00037	—	3.89438	3.89438	0.00020	0.00062	0.00332	4.08595

3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04570	0.78821	2.76388	0.00365	0.00721	—	0.00721	0.00721	—	0.00721	—	395.748	395.748	0.01605	0.00321	—	397.106
Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00038	0.00648	0.02272	0.00003	0.00006	—	0.00006	0.00006	—	0.00006	—	3.25272	3.25272	0.00013	0.00003	—	3.26388
Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—

Attachment: A

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00007	0.00118	0.00415	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.53853	0.53853	0.00002	< 0.000005	—	0.54037
Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01719	0.01540	0.18000	0.00000	0.00000	0.04229	0.04229	0.00000	0.00991	0.00991	—	43.1500	43.1500	0.00231	0.00176	0.00383	43.7363
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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3.3.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04570	0.78821	2.76388	0.00365	0.00721	—	0.00721	0.00721	—	0.00721	—	395.748	395.748	0.01605	0.00321	—	397.106
Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00038	0.00648	0.02272	0.00003	0.00006	—	0.00006	0.00006	—	0.00006	—	3.25272	3.25272	0.00013	0.00003	—	3.26388
Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00007	0.00118	0.00415	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.53853	0.53853	0.00002	< 0.000005	—	0.54037

Dust From Material Movement	—	—	—	—	—	0.00000	0.00000	—	0.00000	0.00000	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01719	0.01540	0.18000	0.00000	0.00000	0.04229	0.04229	0.00000	0.00991	0.00991	—	43.1500	43.1500	0.00231	0.00176	0.00383	43.7363
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00150	0.00000	0.00000	0.00034	0.00034	0.00000	0.00008	0.00008	—	0.35783	0.35783	0.00002	0.00001	0.00053	0.36285
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00027	0.00000	0.00000	0.00006	0.00006	0.00000	0.00001	0.00001	—	0.05924	0.05924	< 0.000005	< 0.000005	0.00009	0.06007
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2027)

Attachment: A

3.4.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12344	0.64187	8.10192	0.01205	0.02469	—	0.02469	0.02469	—	0.02469	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12344	0.64187	8.10192	0.01205	0.02469	—	0.02469	0.02469	—	0.02469	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03382	0.17586	2.21970	0.00330	0.00676	—	0.00676	0.00676	—	0.00676	—	357.357	357.357	0.01450	0.00290	—	358.583
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00617	0.03209	0.40510	0.00060	0.00123	—	0.00123	0.00123	—	0.00123	—	59.1645	59.1645	0.00240	0.00048	—	59.3675
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Attachment: A

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05078	0.03549	0.59021	0.00000	0.00000	0.12178	0.12178	0.00000	0.02855	0.02855	—	131.584	131.584	0.00602	0.00475	0.42658	133.577
Vendor	0.00180	0.06487	0.03061	0.00036	0.00072	0.01368	0.01440	0.00072	0.00378	0.00450	—	51.4027	51.4027	0.00196	0.00721	0.11469	53.7149
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04951	0.04436	0.51840	0.00000	0.00000	0.12178	0.12178	0.00000	0.02855	0.02855	—	124.272	124.272	0.00666	0.00507	0.01103	125.960
Vendor	0.00166	0.06720	0.03110	0.00036	0.00072	0.01368	0.01440	0.00072	0.00378	0.00450	—	51.4371	51.4371	0.00200	0.00721	0.00298	53.6388
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01348	0.01207	0.14376	0.00000	0.00000	0.03294	0.03294	0.00000	0.00771	0.00771	—	34.3518	34.3518	0.00174	0.00130	0.05047	34.8337
Vendor	0.00047	0.01827	0.00850	0.00010	0.00020	0.00371	0.00391	0.00020	0.00103	0.00122	—	14.0869	14.0869	0.00055	0.00198	0.01358	14.7028
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00246	0.00220	0.02624	0.00000	0.00000	0.00601	0.00601	0.00000	0.00141	0.00141	—	5.68733	5.68733	0.00029	0.00022	0.00836	5.76711
Vendor	0.00009	0.00333	0.00155	0.00002	0.00004	0.00068	0.00071	0.00004	0.00019	0.00022	—	2.33224	2.33224	0.00009	0.00033	0.00225	2.43422
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12344	0.64187	8.10192	0.01205	0.02469	—	0.02469	0.02469	—	0.02469	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83

Attachment: A

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12344	0.64187	8.10192	0.01205	0.02469	—	0.02469	0.02469	—	0.02469	—	1,304.35	1,304.35	0.05291	0.01058	—	1,308.83
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03382	0.17586	2.21970	0.00330	0.00676	—	0.00676	0.00676	—	0.00676	—	357.357	357.357	0.01450	0.00290	—	358.583
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00617	0.03209	0.40510	0.00060	0.00123	—	0.00123	0.00123	—	0.00123	—	59.1645	59.1645	0.00240	0.00048	—	59.3675
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05078	0.03549	0.59021	0.00000	0.00000	0.12178	0.12178	0.00000	0.02855	0.02855	—	131.584	131.584	0.00602	0.00475	0.42658	133.577
Vendor	0.00180	0.06487	0.03061	0.00036	0.00072	0.01368	0.01440	0.00072	0.00378	0.00450	—	51.4027	51.4027	0.00196	0.00721	0.11469	53.7149
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04951	0.04436	0.51840	0.00000	0.00000	0.12178	0.12178	0.00000	0.02855	0.02855	—	124.272	124.272	0.00666	0.00507	0.01103	125.960
Vendor	0.00166	0.06720	0.03110	0.00036	0.00072	0.01368	0.01440	0.00072	0.00378	0.00450	—	51.4371	51.4371	0.00200	0.00721	0.00298	53.6388
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01348	0.01207	0.14376	0.00000	0.00000	0.03294	0.03294	0.00000	0.00771	0.00771	—	34.3518	34.3518	0.00174	0.00130	0.05047	34.8337
Vendor	0.00047	0.01827	0.00850	0.00010	0.00020	0.00371	0.00391	0.00020	0.00103	0.00122	—	14.0869	14.0869	0.00055	0.00198	0.01358	14.7028
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00246	0.00220	0.02624	0.00000	0.00000	0.00601	0.00601	0.00000	0.00141	0.00141	—	5.68733	5.68733	0.00029	0.00022	0.00836	5.76711
Vendor	0.00009	0.00333	0.00155	0.00002	0.00004	0.00068	0.00071	0.00004	0.00019	0.00022	—	2.33224	2.33224	0.00009	0.00033	0.00225	2.43422
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Paving (2027)

3.5.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06923	0.84177	4.58276	0.00604	0.01216	—	0.01216	0.01216	—	0.01216	—	654.029	654.029	0.02653	0.00531	—	656.274
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment: A

Off-Road Equipment	0.00095	0.01153	0.06278	0.00008	0.00017	—	0.00017	0.00017	—	0.00017	—	8.95931	8.95931	0.00036	0.00007	—	8.99005
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00017	0.00210	0.01146	0.00002	0.00003	—	0.00003	0.00003	—	0.00003	—	1.48332	1.48332	0.00006	0.00001	—	1.48841
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02645	0.01848	0.30740	0.00000	0.00000	0.06343	0.06343	0.00000	0.01487	0.01487	—	68.5331	68.5331	0.00314	0.00248	0.22218	69.5713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00035	0.00031	0.00374	0.00000	0.00000	0.00086	0.00086	0.00000	0.00020	0.00020	—	0.89458	0.89458	0.00005	0.00003	0.00131	0.90713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00006	0.00006	0.00068	0.00000	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.14811	0.14811	0.00001	0.00001	0.00022	0.15019

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Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06923	0.84177	4.58276	0.00604	0.01216	—	0.01216	0.01216	—	0.01216	—	654.029	654.029	0.02653	0.00531	—	656.274
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00095	0.01153	0.06278	0.00008	0.00017	—	0.00017	0.00017	—	0.00017	—	8.95931	8.95931	0.00036	0.00007	—	8.99005
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00017	0.00210	0.01146	0.00002	0.00003	—	0.00003	0.00003	—	0.00003	—	1.48332	1.48332	0.00006	0.00001	—	1.48841
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.4. Offsite - Mitigated

Attachment: A

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02645	0.01848	0.30740	0.00000	0.00000	0.06343	0.06343	0.00000	0.01487	0.01487	—	68.5331	68.5331	0.00314	0.00248	0.22218	69.5713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00035	0.00031	0.00374	0.00000	0.00000	0.00086	0.00086	0.00000	0.00020	0.00020	—	0.89458	0.89458	0.00005	0.00003	0.00131	0.90713
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00006	0.00006	0.00068	0.00000	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.14811	0.14811	0.00001	0.00001	0.00022	0.15019
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Architectural Coating (2027)

3.6.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.513	133.513	0.00542	0.00108	—	133.971

Attachment: A

Architect Coatings	8.76267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00058	0.01770	0.02639	0.00005	0.00006	—	0.00006	0.00006	—	0.00006	—	3.65788	3.65788	0.00015	0.00003	—	3.67044
Architect ural Coatings	0.24007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00011	0.00323	0.00482	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.60560	0.60560	0.00002	< 0.000005	—	0.60768
Architect ural Coatings	0.04381	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01016	0.00710	0.11804	0.00000	0.00000	0.02436	0.02436	0.00000	0.00571	0.00571	—	26.3167	26.3167	0.00120	0.00095	0.08532	26.7154
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00027	0.00024	0.00288	0.00000	0.00000	0.00066	0.00066	0.00000	0.00015	0.00015	—	0.68704	0.68704	0.00003	0.00003	0.00101	0.69667
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00005	0.00004	0.00052	0.00000	0.00000	0.00012	0.00012	0.00000	0.00003	0.00003	—	0.11375	0.11375	0.00001	< 0.000005	0.00017	0.11534
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.513	133.513	0.00542	0.00108	—	133.971
Architectural Coatings	8.76267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment: A

Off-Road Equipment	0.00058	0.01770	0.02639	0.00005	0.00006	—	0.00006	0.00006	—	0.00006	—	3.65788	3.65788	0.00015	0.00003	—	3.67044
Architectural Coatings	0.24007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00011	0.00323	0.00482	0.00001	0.00001	—	0.00001	0.00001	—	0.00001	—	0.60560	0.60560	0.00002	< 0.000005	—	0.60768
Architectural Coatings	0.04381	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01016	0.00710	0.11804	0.00000	0.00000	0.02436	0.02436	0.00000	0.00571	0.00571	—	26.3167	26.3167	0.00120	0.00095	0.08532	26.7154
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00027	0.00024	0.00288	0.00000	0.00000	0.00066	0.00066	0.00000	0.00015	0.00015	—	0.68704	0.68704	0.00003	0.00003	0.00101	0.69667
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Attachment: A

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00005	0.00004	0.00052	0.00000	0.00000	0.00012	0.00012	0.00000	0.00003	0.00003	—	0.11375	0.11375	0.00001	< 0.000005	0.00017	0.11534
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Total	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Total	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485
Total	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Total	0.57858	0.35156	3.78038	0.00918	0.00670	0.82686	0.83356	0.00626	0.20972	0.21598	—	935.196	935.196	0.04513	0.03657	2.55475	949.777
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Total	0.56727	0.38615	3.60957	0.00877	0.00670	0.82686	0.83356	0.00626	0.20972	0.21599	—	894.006	894.006	0.04827	0.03879	0.06624	906.838
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485
Total	0.09149	0.06221	0.58740	0.00144	0.00110	0.13340	0.13449	0.00102	0.03384	0.03486	—	133.452	133.452	0.00702	0.00569	0.16353	135.485

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Attachment: A

Apartme Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.63242	8.63242	0.00632	0.00077	—	9.01850
Total	—	—	—	—	—	—	—	—	—	—	—	8.63242	8.63242	0.00632	0.00077	—	9.01850
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.63242	8.63242	0.00632	0.00077	—	9.01850
Total	—	—	—	—	—	—	—	—	—	—	—	8.63242	8.63242	0.00632	0.00077	—	9.01850
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.42920	1.42920	0.00105	0.00013	—	1.49312
Total	—	—	—	—	—	—	—	—	—	—	—	1.42920	1.42920	0.00105	0.00013	—	1.49312

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Total	—	—	—	—	—	—	—	—	—	—	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	8.80016	8.80016	0.00644	0.00078	—	9.19373
Total	—	—	—	—	—	—	—	—	—	—	—	8.80016	8.80016	0.00644	0.00078	—	9.19373

Attachment: A

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	1.45697	1.45697	0.00107	0.00013	—	1.52213
Total	—	—	—	—	—	—	—	—	—	—	—	1.45697	1.45697	0.00107	0.00013	—	1.52213

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	86.9503	86.9503	0.00770	0.00016	—	87.1915
Total	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	86.9503	86.9503	0.00770	0.00016	—	87.1915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	86.9503	86.9503	0.00770	0.00016	—	87.1915
Total	0.00401	0.06850	0.02915	0.00044	0.00554	—	0.00554	0.00554	—	0.00554	—	86.9503	86.9503	0.00770	0.00016	—	87.1915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00073	0.01250	0.00532	0.00008	0.00101	—	0.00101	0.00101	—	0.00101	—	14.3956	14.3956	0.00127	0.00003	—	14.4355
Total	0.00073	0.01250	0.00532	0.00008	0.00101	—	0.00101	0.00101	—	0.00101	—	14.3956	14.3956	0.00127	0.00003	—	14.4355

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)

Attachment: A

Land Use	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	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.29960	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.02401	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.09889	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	—	3.03375	3.03375	0.00013	0.00003	—	3.04442
Total	0.42250	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	0.00000	3.03375	3.03375	0.00013	0.00003	—	3.04442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.29960	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02401	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.32361	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.05468	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00438	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00890	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	—	0.24770	0.24770	0.00001	< 0.000005	—	0.24857
Total	0.06796	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24770	0.24770	0.00001	< 0.000005	—	0.24857

4.3.2. Mitigated

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

Attachment: A

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.29960	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02401	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.09889	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	—	3.03375	3.03375	0.00013	0.00003	—	3.04442
Total	0.42250	0.01074	1.13666	0.00005	0.00053	—	0.00053	0.00040	—	0.00040	0.00000	3.03375	3.03375	0.00013	0.00003	—	3.04442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.29960	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02401	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.32361	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Consumer Products	0.05468	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00438	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.00890	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	—	0.24770	0.24770	0.00001	< 0.000005	—	0.24857
Total	0.06796	0.00097	0.10230	< 0.000005	0.00005	—	0.00005	0.00004	—	0.00004	0.00000	0.24770	0.24770	0.00001	< 0.000005	—	0.24857

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Total	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Total	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052
Total	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052

4.4.2. Mitigated

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

Attachment: A

Land Use	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	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Total	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Total	—	—	—	—	—	—	—	—	—	—	1.34646	0.60299	1.94945	0.13851	0.00333	—	6.40559
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052
Total	—	—	—	—	—	—	—	—	—	—	0.22292	0.09983	0.32275	0.02293	0.00055	—	1.06052

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862

Total	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Total	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344
Total	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Total	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Total	—	—	—	—	—	—	—	—	—	—	7.99912	0.00000	7.99912	0.79948	0.00000	—	27.9862
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344
Total	—	—	—	—	—	—	—	—	—	—	1.32435	0.00000	1.32435	0.13236	0.00000	—	4.63344

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660

4.6.2. Mitigated

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

Attachment: A

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10027	0.10027
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01660	0.01660

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8.2. Mitigated

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

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

4.9.2. Mitigated

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

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

Attachment: A

Vegetation	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment: A

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
Demolition	Demolition	1/1/2027	1/4/2027	5.00000	2.00000	—
Site Preparation	Site Preparation	1/5/2027	1/7/2027	5.00000	3.00000	—
Grading	Grading	1/8/2027	1/12/2027	5.00000	3.00000	—
Building Construction	Building Construction	1/13/2027	6/1/2027	5.00000	100.0000	—
Paving	Paving	6/2/2027	6/8/2027	5.00000	5.00000	—
Architectural Coating	Architectural Coating	5/19/2027	6/1/2027	5.00000	10.00000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.000000	8.00000	33.0000	0.73000
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	6.00000	84.0000	0.37000
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	8.00000	84.0000	0.37000

Site Preparation	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	7.00000	84.0000	0.37000
Grading	Excavators	Diesel	Tier 4 Final	1.000000	8.00000	36.0000	0.38000
Building Construction	Cranes	Diesel	Tier 4 Final	1.000000	4.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00000	6.00000	82.0000	0.20000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000
Paving	Pavers	Diesel	Tier 4 Final	1.000000	7.00000	81.0000	0.42000
Paving	Rollers	Diesel	Tier 4 Final	1.000000	7.00000	36.0000	0.38000
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	7.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.000000	6.00000	37.0000	0.48000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.000000	8.00000	33.0000	0.73000
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	6.00000	84.0000	0.37000
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	8.00000	84.0000	0.37000
Site Preparation	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	7.00000	84.0000	0.37000
Grading	Excavators	Diesel	Tier 4 Final	1.000000	8.00000	36.0000	0.38000
Building Construction	Cranes	Diesel	Tier 4 Final	1.000000	4.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00000	6.00000	82.0000	0.20000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000

Paving	Pavers	Diesel	Tier 4 Final	1.000000	7.00000	81.0000	0.42000
Paving	Rollers	Diesel	Tier 4 Final	1.000000	7.00000	36.0000	0.38000
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.000000	7.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.50000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	2.50000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	5.00000	11.9700	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	41.6667	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	5.00000	11.9700	LDA,LDT1,LDT2
Grading	Vendor	—	7.63000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	14.4000	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	2.13800	7.63000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	7.50000	11.9700	LDA,LDT1,LDT2
Paving	Vendor	—	7.63000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	2.88000	11.9700	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.50000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	2.50000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	5.00000	11.9700	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	41.6667	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	5.00000	11.9700	LDA,LDT1,LDT2
Grading	Vendor	—	7.63000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	14.4000	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	2.13800	7.63000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	7.50000	11.9700	LDA,LDT1,LDT2
Paving	Vendor	—	7.63000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	Worker	2.88000	11.9700	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	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	28,350.0	9,450.00	0.00000	0.00000	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	20.0000	0.00000
Site Preparation	—	1,000.000	0.00000	0.00000	0.00000
Grading	—	—	0.00000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.05000

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
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Paving	Apartments Low Rise	0.05000	0%
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5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	588.983	0.03300	0.00400

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	146.400	162.800	125.600	53,206.6	1,052.82	1,170.76	903.237	382,629

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	146.400	162.800	125.600	53,206.6	1,052.82	1,170.76	903.237	382,629

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Low Rise	Wood Fireplaces	0	0
Apartments Low Rise	Gas Fireplaces	0	0
Apartments Low Rise	Propane Fireplaces	0	0
Apartments Low Rise	Electric Fireplaces	0	0
Apartments Low Rise	No Fireplaces	20	20

Apartments Low Rise	Conventional Wood Stoves	0	0
Apartments Low Rise	Catalytic Wood Stoves	0	0
Apartments Low Rise	Non-Catalytic Wood Stoves	0	0
Apartments Low Rise	Pellet Wood Stoves	0	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)
28,350.0	9,450.00	0.00000	0.00000	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

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)	CO ₂	CH ₄	N ₂ O	Natural Gas (kBTU/yr)
Apartments Low Rise	69,864.8	45.0990	0.0330	0.0040	271,308

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	71,222.3	45.0990	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	702,662	18,265.1

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	702,662	18,265.1

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	14.8424	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	14.8424	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

Attachment: A

5.14.1. Unmitigated

Land Use	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	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.14.2. Mitigated

Land Use	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	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.67000	annual days of extreme heat
Extreme Precipitation	2.70000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	1.93000	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.1587

AQ-PM	46.8824
AQ-DPM	82.2153
Drinking Water	28.9871
Lead Risk Housing	51.9975
Pesticides	0.00000
Toxic Releases	32.7707
Traffic	83.4375
Effect Indicators	—
CleanUp Sites	0.00000
Groundwater	30.8816
Haz Waste Facilities/Generators	64.6327
Impaired Water Bodies	72.1546
Solid Waste	0.00000
Sensitive Population	—
Asthma	6.41825
Cardio-vascular	12.9860
Low Birth Weights	34.3854
Socioeconomic Factor Indicators	—
Education	12.5538
Housing	64.4613
Linguistic	0.25714
Poverty	47.1106
Unemployment	15.8381

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	—

Attachment: A

Above Poverty	43.16694469
Employed	92.6344155
Median HI	47.79930707
Education	—
Bachelor's or higher	74.51559091
High school enrollment	100
Preschool enrollment	74.06646991
Transportation	—
Auto Access	30.23225972
Active commuting	72.03900937
Social	—
2-parent households	50.05774413
Voting	49.00551777
Neighborhood	—
Alcohol availability	20.82638265
Park access	81.35506224
Retail density	72.73193892
Supermarket access	37.73899654
Tree canopy	23.41845246
Housing	—
Homeownership	6.416014372
Housing habitability	28.42294367
Low-inc homeowner severe housing cost burden	40.34389837
Low-inc renter severe housing cost burden	53.3042474
Uncrowded housing	58.74502759
Health Outcomes	—
Insured adults	26.76761196
Arthritis	96.9

Attachment: A

Bunker Hill MF Detailed Report, 5/31/2026

Asthma ER Admissions	89.3
High Blood Pressure	98.3
Cancer (excluding skin)	82.6
Asthma	61.7
Coronary Heart Disease	97.0
Chronic Obstructive Pulmonary Disease	91.4
Diagnosed Diabetes	97.7
Life Expectancy at Birth	54.8
Cognitively Disabled	84.2
Physically Disabled	94.1
Heart Attack ER Admissions	85.1
Mental Health Not Good	60.0
Chronic Kidney Disease	97.1
Obesity	70.8
Pedestrian Injuries	69.2
Physical Health Not Good	92.3
Stroke	96.9
Health Risk Behaviors	—
Binge Drinking	0.8
Current Smoker	56.0
No Leisure Time for Physical Activity	86.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	76.9
Children	50.1
Elderly	88.2
English Speaking	63.1
Foreign-born	39.8

Outdoor Workers	65.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	15.0
Traffic Density	80.5
Traffic Access	69.7
Other Indices	—
Hardship	18.3
Other Decision Support	—
2016 Voting	60.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	18.0000
Healthy Places Index Score for Project Location (b)	60.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Based on PD
Construction: Construction Phases	Based on PD
Construction: Off-Road Equipment	Tier 4 equipment
Construction: Paving	0.05 acre
Operations: Hearths	no hearth

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	1.25000	0.14300
Building Area	sq. ft	21,200.0	14,000.0
Landscape Area	sq. ft	—	1,000.000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	1/15/2027	1/4/2027
Demolition	Demolition	Work Days per Phase	10.00000	2.00000
Site Preparation	Site Preparation	Start Date	1/16/2027	1/5/2027
Site Preparation	Site Preparation	End Date	1/17/2027	1/7/2027
Site Preparation	Site Preparation	Work Days per Phase	1.000000	3.00000
Grading	Grading	Start Date	1/18/2027	1/8/2027
Grading	Grading	End Date	1/20/2027	1/12/2027
Grading	Grading	Work Days per Phase	2.00000	3.00000
Building Construction	Building Construction	Start Date	1/21/2027	1/13/2027

Building Construction	Building Construction	End Date	6/10/2027	6/1/2027
Paving	Paving	Start Date	6/11/2027	6/2/2027
Paving	Paving	End Date	6/18/2027	6/8/2027
Architectural Coating	Architectural Coating	Start Date	6/19/2027	5/19/2027
Architectural Coating	Architectural Coating	End Date	6/26/2027	6/1/2027
Architectural Coating	Architectural Coating	Work Days per Phase	5.00000	10.00000

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Concrete/Industrial Saws	Engine Tier	Average	Tier 4 Final
Demolition	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Demolition	Tractors/Loaders/Backhoes	Number per Day	2.00000	1.000000
Demolition	Skid Steer Loaders	Engine Tier	Average	Tier 4 Final
Site Preparation	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Site Preparation	Skid Steer Loaders	Engine Tier	Average	Tier 4 Final
Grading	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Grading	Excavators	Engine Tier	Average	Tier 4 Final
Building Construction	Cranes	Engine Tier	Average	Tier 4 Final
Building Construction	Forklifts	Engine Tier	Average	Tier 4 Final
Building Construction	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Paving	Pavers	Engine Tier	Average	Tier 4 Final
Paving	Rollers	Engine Tier	Average	Tier 4 Final
Paving	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Architectural Coating	Air Compressors	Engine Tier	Average	Tier 4 Final

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Paving	Apartments Low Rise	Area Paved	acres	—	0.05000

8.5. Operations

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Apartments Low Rise	Wood Fireplaces	7	0
Apartments Low Rise	Gas Fireplaces	11	0
Apartments Low Rise	No Fireplaces	2	20
Apartments Low Rise	Catalytic Wood Stoves	1	0
Apartments Low Rise	Non-Catalytic Wood Stoves	1	0

Attachment: B

AERSCREEN 21112 / AERMOD 22112

05/30/26

08:41:31

TITLE: Bunker Hill MF

***** AREA PARAMETERS *****

SOURCE EMISSION RATE:	0.873E-04 g/s	0.693E-03 lb/hr
AREA EMISSION RATE:	0.151E-06 g/(s-m2)	0.120E-05 lb/(hr-m2)
AREA HEIGHT:	3.00 meters	9.84 feet
AREA SOURCE LONG SIDE:	24.05 meters	78.90 feet
AREA SOURCE SHORT SIDE:	24.05 meters	78.90 feet
INITIAL VERTICAL DIMENSION:	1.20 meters	3.94 feet
RURAL OR URBAN:	URBAN	
POPULATION:	79000	
FLAGPOLE RECEPTOR HEIGHT:	1.50 meters	4.92 feet
INITIAL PROBE DISTANCE =	5000. meters	16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

***** FLOW SECTOR ANALYSIS *****

25 meter receptor spacing: 1. meters - 5000. meters

MAXIMUM IMPACT RECEPTOR

Zo	SURFACE	1-HR CONC	RADIAL	DIST	TEMPORAL
SECTOR	ROUGHNESS	(ug/m3)	(deg)	(m)	PERIOD
1*	1.000	1.126	45	25.0	WIN

* = worst case diagonal

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50

Attachment: B

ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

10 01 10 10 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50		

HT	REF	TA	HT
10.0	310.0	2.0	

***** AERSCREEN AUTOMATED DISTANCES *****

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	1.045	2525.00	0.1944E-02
25.00	1.126	2550.00	0.1917E-02
50.01	0.4331	2575.00	0.1892E-02
75.00	0.2471	2600.00	0.1867E-02
100.00	0.1657	2625.00	0.1843E-02
125.00	0.1216	2650.00	0.1819E-02
150.00	0.9445E-01	2675.00	0.1796E-02
175.00	0.7626E-01	2700.00	0.1773E-02
200.00	0.6339E-01	2725.00	0.1751E-02
225.00	0.5387E-01	2750.00	0.1729E-02
250.00	0.4656E-01	2775.00	0.1708E-02
275.00	0.4082E-01	2800.00	0.1687E-02
300.00	0.3621E-01	2825.00	0.1667E-02
325.00	0.3243E-01	2850.00	0.1647E-02
350.00	0.2927E-01	2875.00	0.1627E-02
375.01	0.2661E-01	2900.00	0.1608E-02
400.00	0.2435E-01	2925.00	0.1589E-02
425.00	0.2249E-01	2950.00	0.1571E-02
450.00	0.2078E-01	2975.00	0.1553E-02
475.00	0.1929E-01	3000.00	0.1535E-02
500.00	0.1797E-01	3025.00	0.1518E-02
525.00	0.1680E-01	3050.00	0.1501E-02
550.00	0.1575E-01	3075.00	0.1484E-02
575.00	0.1482E-01	3100.00	0.1468E-02
600.00	0.1397E-01	3125.00	0.1452E-02
625.00	0.1321E-01	3150.00	0.1436E-02
649.99	0.1251E-01	3174.99	0.1420E-02
675.00	0.1188E-01	3200.00	0.1405E-02
699.99	0.1130E-01	3225.00	0.1390E-02
725.00	0.1077E-01	3250.00	0.1376E-02
749.99	0.1028E-01	3275.00	0.1361E-02
775.00	0.9824E-02	3300.00	0.1347E-02
800.00	0.9404E-02	3325.00	0.1333E-02
825.00	0.9014E-02	3350.00	0.1320E-02
850.00	0.8652E-02	3375.00	0.1306E-02
875.00	0.8314E-02	3400.00	0.1293E-02
900.00	0.7998E-02	3425.00	0.1280E-02

Attachment: B

924.99	0.7702E-02	3450.00	0.1268E-02
950.00	0.7425E-02	3475.00	0.1255E-02
975.00	0.7165E-02	3500.00	0.1243E-02
1000.00	0.6920E-02	3525.00	0.1231E-02
1025.00	0.6689E-02	3550.00	0.1219E-02
1050.00	0.6471E-02	3575.00	0.1208E-02
1075.00	0.6266E-02	3600.00	0.1196E-02
1100.00	0.6071E-02	3625.00	0.1185E-02
1125.00	0.5887E-02	3650.00	0.1174E-02
1149.99	0.5712E-02	3675.00	0.1163E-02
1175.00	0.5545E-02	3700.00	0.1152E-02
1200.00	0.5388E-02	3725.00	0.1141E-02
1225.00	0.5237E-02	3750.00	0.1131E-02
1250.00	0.5094E-02	3775.00	0.1121E-02
1275.00	0.4957E-02	3800.00	0.1111E-02
1300.00	0.4827E-02	3825.00	0.1101E-02
1325.00	0.4703E-02	3850.00	0.1091E-02
1350.00	0.4584E-02	3875.00	0.1081E-02
1375.00	0.4470E-02	3900.00	0.1072E-02
1400.00	0.4361E-02	3925.00	0.1063E-02
1425.00	0.4256E-02	3950.00	0.1053E-02
1450.00	0.4156E-02	3975.00	0.1044E-02
1475.00	0.4059E-02	4000.00	0.1035E-02
1500.00	0.3967E-02	4025.00	0.1027E-02
1525.00	0.3878E-02	4050.00	0.1018E-02
1550.00	0.3793E-02	4075.00	0.1010E-02
1574.99	0.3710E-02	4100.00	0.1001E-02
1600.00	0.3631E-02	4125.00	0.9928E-03
1625.00	0.3555E-02	4149.99	0.9846E-03
1650.00	0.3481E-02	4175.00	0.9766E-03
1675.00	0.3410E-02	4200.00	0.9686E-03
1700.00	0.3341E-02	4225.00	0.9608E-03
1725.00	0.3275E-02	4250.00	0.9531E-03
1750.00	0.3211E-02	4275.00	0.9455E-03
1775.00	0.3149E-02	4300.00	0.9380E-03
1800.00	0.3090E-02	4325.00	0.9305E-03
1824.99	0.3032E-02	4350.00	0.9232E-03
1850.00	0.2976E-02	4375.00	0.9160E-03
1875.00	0.2922E-02	4400.00	0.9089E-03
1900.00	0.2869E-02	4425.00	0.9019E-03
1924.99	0.2818E-02	4450.00	0.8950E-03
1950.00	0.2769E-02	4475.00	0.8881E-03
1975.00	0.2721E-02	4500.00	0.8814E-03
2000.00	0.2674E-02	4525.00	0.8747E-03
2025.00	0.2629E-02	4550.00	0.8682E-03
2050.00	0.2585E-02	4575.00	0.8617E-03
2075.00	0.2543E-02	4600.00	0.8553E-03
2100.00	0.2501E-02	4625.00	0.8490E-03
2125.00	0.2461E-02	4650.00	0.8427E-03
2150.00	0.2422E-02	4675.00	0.8366E-03
2175.00	0.2384E-02	4700.00	0.8305E-03
2200.00	0.2347E-02	4725.00	0.8245E-03
2225.00	0.2311E-02	4750.00	0.8186E-03
2250.00	0.2276E-02	4774.99	0.8127E-03
2275.00	0.2242E-02	4800.00	0.8069E-03
2300.00	0.2208E-02	4825.00	0.8012E-03
2325.00	0.2176E-02	4850.00	0.7956E-03
2350.00	0.2144E-02	4875.00	0.7900E-03
2375.00	0.2113E-02	4900.00	0.7845E-03
2400.00	0.2083E-02	4924.99	0.7791E-03
2425.00	0.2054E-02	4950.00	0.7737E-03
2449.99	0.2025E-02	4975.00	0.7684E-03
2475.00	0.1997E-02	5000.00	0.7631E-03
2500.00	0.1970E-02		

***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

Attachment: B

3-hour, 8-hour, and 24-hour scaled concentrations are equal to the 1-hour concentration as referenced in SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
 Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
 under Screening Guidance

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	1.752	1.752	1.752	1.752	N/A
DISTANCE FROM SOURCE	15.99 meters				
IMPACT AT THE AMBIENT BOUNDARY	1.045	1.045	1.045	1.045	N/A
DISTANCE FROM SOURCE	1.00 meters				

Attachment: C

Air Quality Health Risk Calculations (Worst-Case) Bunker Hill MF (Tier 4 Final)		
From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.001315
	Construction Start	1/1/2027
	Construction Complete	6/8/2027
	Days	158
	Construction Emission per day (lb/day)	0.01664557
	Annual Duration (Days)	365
Used as an input to AERSCREEN	Annualized Emission Rate (Grams/Second)	8.72736E-05
	Project Site Size (Acres)	0.143
	Project Site Size (meters^2)	578.7004684
	Length of Smalles Side (meters)	24.05619397
From AERSCREEN Hourly * 0.1 to convert to annual	Concentration Annual (Ug/M^3)	0.1126
Duration	Days	Days to years
	158	0.432876712
Age (Years)	3rd Trimester (0.25)	0-2
Cair (annual) - From F15	0.1126	0.1126
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090
A (Default is 1)	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001
Dose-inh	0.00003902	0.00011782
Construction Days	158	0.432876712
potency factor for Diesel	1.1	1.1
Age Sensitivity Factor	10	10
ED	0.25	0.432876712
AT	70	70
FAH	1	1
Risk for Each Age Group	1.53303E-06	8.01484E-06
Risk per million Exposed	1.533032914	8.014842439
Cancer Risk Per Million Construction Duration	9.55	