RECON

An Employee-Owned Company

April 2, 2026

Ms. Shannyn Henkel
Fairfield Residential
5355 Mira Sorrento Place, Suite 100
San Diego, CA 92121

Reference: Air Quality Addendum for the Fairfield Residential Rezone Project (RECON Number 10498)

Dear Ms. Henkel:

This report discusses potential air quality impacts that may be generated by the Fairfield Residential Rezone Project (project). Air quality impacts were assessed in accordance with the California Environmental Quality Act (CEQA), the City of San Diego's (City) Significance Determination Thresholds, and guidance from the San Diego Air Pollution Control District (SDAPCD). Impacts are compared to those identified in the Midway-Pacific Highway Community Plan (CPU) Update Revised Final Program Environmental Impact Report (PEIR; City of San Diego 2018).

1.0 Project Description

The project proposes a Community Plan Amendment (CPA) and Rezone for 16.05 acres of partially developed space in the Midway-Pacific Community Plan area. Figure 1 shows the regional location. The project site comprises three parcels, which are further described as areas A, B, and C. Area A (Parcel 1 of Parcel Map 22202) is developed with a 405-dwelling-unit residential building (Bevel Apartments) located at 3250 Barnett Avenue on 7.12 acres with Assessor's Parcel Numbers (APNs) of 450-480-015 and 450-480-016. Area B (Parcel 2 of Parcel Map 22202) is developed with a 253-dwelling-unit residential building (Bowen Apartments) located at 3280 Barnett Avenue on 4.47 acres with an APN of 450-480-017. Area C (Parcel 1 of Parcel Map 21693) is currently undeveloped but is paved and contains building foundations from a recently demolished structure. It is located at 2535 Midway Drive on 4.46 acres with an APN of 450-480-013. Figure 2 shows an aerial photograph of the project site and vicinity.

Surrounding land uses include residential land uses to the southwest, Dewey Elementary School to the west, a United States Postal Service property to the northwest, commercial/retail uses to the north, northeast, and east, and Marine Corp Recruit Depot to the south. The residential uses are located as close as 10 feet west of the project boundary and Dewey Elementary School is located 740 feet west of the project boundary.

The project site (areas A, B, and C) is currently designated as Business Park – Residential Permitted (0–44 dwelling units) in the Midway-Pacific Community Plan and Multiple Use in the City's General Plan. All parcels are zoned as Commercial Office 3-1 (CO-3-1). The project proposes the following:

- A CPA to redesignate the project site from Business Park – Residential Permitted (0–44 dwelling units) to Residential – High (45–73 dwelling units) in the Midway-Pacific Highway Community Plan
- A Rezone from CO-3-1 to Residential – Multiple Units 3-9 (RM-3-9)

Because no site development plan is currently proposed, the project is limited to approval of a CPA and Rezone. Accordingly, this project description, and the analysis that follows, focuses on the reasonably foreseeable development that could occur under the proposed land use and zoning designations rather than a specific site design.

Based on the acreage of the project site (16.05 acres) and the development restrictions of the City's Land Development Code, Table 1 provides a review of the existing allowed and proposed maximum development potentials of the project site. Under the existing zoning (CO-3-1), the project site could be developed with or without residential components. However, it should be noted that in the existing condition, areas A and B contain residential projects recently completed in 2025. Buildout of the project site assumes demolishing the existing residential development that currently occupies areas A and B.

Table 1
Maximum Development Potential

Zoning	FAR Ratio	Maximum Potential GFA or Number of Units
Existing Zoning (CO-3-1)[1]		
Existing Zoning (CO-3-1) – With Residential		
Commercial Component (Base GFA)	2.0	1,398,276 sf
Residential Component (Bonus GFA)[2]	1.0	699,138 sf (a maximum of 699 units)
Maximum GFA	3.0	2,097,414 sf
Existing Zoning (CO-3-1) – Without Residential		
Commercial Component (Maximum GFA)	2.0	1,398,276 sf
Proposed Zoning (RM-3-9)[3]		
Proposed Zoning (RM-3-9)		
Commercial Component (10 percent of GFA)[4]	--	188,767 sf
Residential Component[2]	--	1,698,906 sf (a maximum of 1,165 units)
Maximum GFA	2.7	1,887,673 sf

FAR = floor area ratio; GFA = gross floor area; sf = square feet
[1] City of San Diego Municipal Code (SDMC) Chapter 13, Article 1, Division 5.
[2] Residential units are calculated based on the lot area. Zone RM-3-9 allows a greater density (600 sf of lot area/unit) than Zone CO-3-1 (1,000 sf of lot area/unit) [SDMC Section 113.0222(a)].
[3] SDMC Chapter 13, Article 1, Division 4.
[4] Up to 10 percent of the GFA for RM-3-9 zones may be used for commercial uses (SDMC Section 131.0423).

The project for this environmental review is the proposed CPA and Rezone, not a specific development proposal. Future development on the site could take a variety of forms, provided it is consistent with the land use and zoning designations established by the project, as described in Table 1. Accordingly, the analysis evaluates the change in allowable development intensity and land uses compared to existing allowable entitlements and assesses the environmental effects that could result from that increased or modified development potential. Table 2 provides a comparison of these two scenarios.

Table 2
Potential Maximum Development Scenario Comparison

Existing Zoning (CO-3-1)	
Residential	699 units
Commercial (retail and office, see table 3 below)[1]	1,398,276 sf
Proposed Zoning (RM-3-9)	
Residential	1,165 units
Commercial (retail and office, see table 4 below)	188,767 sf
Change in Allowable Development Intensity	
Residential	+466 units
Commercial	-1,209,509 sf
sf = square feet	

Table 3 identifies the maximum development that could occur under the site's current CO-3-1 zoning. These estimates incorporate the provisions of San Diego Municipal Code Section 131.0541, which allow a limited portion (up to 10 percent) of the permitted commercial development to be used for retail.

Table 3
Existing Zoning Maximum Development Potential Scenarios

Scenario 1: Mixed-Use Project with Retail Component	
Minimum FAR required for Residential (1.0)	699,138 sf (699 units)
Maximum GFA permitted for Retail (10 percent)	209,741 sf
GFA Allowance for Office	1,188,535 sf
Scenario 2: Mixed-Use Project without Retail Component	
Minimum FAR required for Residential (1.0)	699,138 sf (699 units)
GFA Allowance for Office	1,398,276 sf
Scenario 3: Commercial Only Development with Retail Component	
Maximum GFA permitted for Retail (10 percent)	139,828 sf
GFA Allowance for Office	1,258,448 sf
Scenario 4: Commercial Only Development without Retail Component	
GFA Allowance for Office	1,398,276 sf
FAR = floor area ratio; GFA = gross floor area; sf = square feet;	

Table 4 summarizes the maximum development potential under the proposed RM-3-9 zoning. Under this designation, up to 10 percent of the total gross floor area may be developed with commercial uses. This commercial component may consist of office, retail, or a combination of both, consistent with San Diego Municipal Code Section 131.0423.

Table 4 Proposed Zoning Maximum Development Potential Scenarios	
Scenario 1: Mixed-Use Project with Office and Retail	
Residential	1,165 units
Retail (75 percent)	141,575 sf
Office (25 percent)	47,192 sf
Scenario 2: Mixed-Use Project with Office and Retail	
Residential	1,165 units
Retail (50 percent)	94,384 sf
Office (50 percent)	94,384 sf
Scenario 3: Mixed-Use Project with Office Only	
Residential	1,165 units
Retail (0 percent)	0 sf
Office (100 percent)	188,767 sf
Scenario 4: Mixed-Use Project with Retail Only	
Residential	1,165 units
Retail (100 percent)	188,767 sf
Office (0 percent)	0 sf
sf = square feet	

2.0 Regulatory Setting

2.1 Federal Regulations

Ambient air quality standards (AAQS) represent the maximum levels of background pollution considered safe, with an adequate margin of safety, to protect the public health and welfare. The federal Clean Air Act (CAA) was enacted in 1970 and amended in 1977 and 1990 [42 United States Code (USC) 7401] for the purposes of protecting and enhancing the quality of the nation's air resources to benefit public health, welfare, and productivity. In 1971, in order to achieve the purposes of Section 109 of the CAA [42 USC 7409], the U.S. Environmental Protection Agency (U.S. EPA) developed primary and secondary National Ambient Air Quality Standards (NAAQS).

Six criteria pollutants of primary concern have been designated: ozone, carbon monoxide (CO), sulfur dioxide (SO_2), nitrogen dioxide (NO_2), lead (Pb), and respirable particulate matter (PM_{10} and $PM_{2.5}$). The primary NAAQS ". . . in the judgment of the Administrator, based on such criteria and allowing an adequate margin of safety, are requisite to protect the public health . . . " and the secondary standards ". . . protect the public welfare from any known or anticipated adverse effects associated with the presence of such air pollutant in the ambient air" [42 USC 7409(b)(2)]. The primary NAAQS were established, with a margin of safety, considering long-term exposure for the most sensitive groups in the general population (i.e., children, senior citizens, and people with breathing difficulties). The NAAQS are presented in Table 5 (California Air Resources Board [CARB] 2024).

An air basin is designated as either attainment or non-attainment for a particular pollutant. Once a non-attainment area has achieved the AAQS for a particular pollutant, it is redesignated as an attainment area for that pollutant. To be redesignated, the area must meet air quality standards for three consecutive years. After redesignation to attainment, the area is known as a maintenance area and must develop a 10-year plan for continuing to meet and

maintain air quality standards, as well as satisfy other requirements of the federal CAA. The San Diego Air Basin (SDAB) is designated as in attainment or unclassifiable attainment (expected to be meeting the standard despite a lack of monitoring data) for all federal air quality standards except for the 8-hour ozone standard.

Table 5
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	–	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.07 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM_{10})[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		–		
Fine Particulate Matter ($PM_{2.5}$)[9]	24 Hour	No Separate State Standard		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	9 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-dispersive Infrared Photometry	35 ppm (40 mg/m^3)	–	Non-dispersive Infrared Photometry
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	–	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		–	–	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemi-luminescence	100 ppb (188 µg/m^3)	–	Gas Phase Chemi-luminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	–	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)
	3 Hour	–		–	0.5 ppm (1,300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	–	
	Annual Arithmetic Mean	–		0.030 ppm (for certain areas)[11]	–	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	–	–	High Volume Sampler and Atomic Absorption
	Calendar Quarter	–		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	–		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		

Table 5
Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Sulfates	24 Hour	25 µg/m^3	Ion Chroma-tography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chroma-tography			

ppm = parts per million; ppb = parts per billion; µg/m^3 = micrograms per cubic meter; – = not applicable.

[1] California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2] National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

[3] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25 degrees Celsius (°C) and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[4] Any equivalent measurement method which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.

[5] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

[6] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[7] Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

[8] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[9] February 7, 2024, the national annual $PM_{2.5}$ primary standard was lowered from 12.0 µg/m^3 to 9.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standards of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[10] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national standards are in units of ppb. California standards are in units of ppm. To directly compare the national standards to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[11] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of ppb. California standards are in units of ppm. To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

[12] The Air Resources Board has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[13] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m^3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

[14] In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: CARB 2024.

2.2 State Regulations

2.2.1 Criteria Pollutants

The CARB has developed the California Ambient Air Quality Standards (CAAQS) and generally has set more stringent limits on the criteria pollutants than the NAAQS (see Table 5). In addition to the federal criteria pollutants, the CAAQS also specify standards for visibility-reducing particles, sulfates, hydrogen sulfide, and vinyl chloride.

Similar to the federal CAA, the state classifies as either "attainment" or "non-attainment" areas for each pollutant based on the comparison of measured data with the CAAQS. The SDAB is a non-attainment area for the state ozone standards, the state PM_{10} standard, and the state $PM_{2.5}$ standard.

2.2.2 Toxic Air Contaminants

The public's exposure to toxic air contaminants (TACs) is a significant public health issue in California. Diesel-exhaust particulate matter emissions have been established as TACs. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health (Assembly Bill [AB] 1807: Health and Safety Code Sections 39650–39674). The legislature established a two-step process to address the potential health effects from TACs. The first step is the risk assessment (or identification) phase. The second step is the risk management (or control) phase of the process.

The California Air Toxics Program establishes the process for the identification and control of TACs and includes provisions to make the public aware of significant toxic exposures and for reducing risk. Additionally, the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly Bill) was enacted in 1987 and requires stationary sources to report the types and quantities of certain substances routinely released into the air.

The goals of the Air Toxics "Hot Spots" Act are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

The Children's Environmental Health Protection Act, California Senate Bill 25 (Chapter 731, Escutia, Statutes of 1999), focuses on children's exposure to air pollutants. The act requires CARB to review its air quality standards from a children's health perspective, evaluate the statewide air monitoring network, and develop any additional air toxic control measures needed to protect children's health. Locally, toxic air pollutants are regulated through SDAPCD's Regulation XII. Of particular concern statewide are diesel-exhaust particulate matter emissions. Diesel-exhaust particulate matter was established as a TAC in 1998 and is estimated to represent a majority of the cancer risk from TACs statewide (based on the statewide average). Diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB and are listed as carcinogens either under the state's Proposition 65 or under the federal Hazardous Air Pollutants program.

Following the identification of diesel particulate matter (DPM) as a TAC in 1998, CARB has worked on developing strategies and regulations aimed at reducing the risk from DPM. The overall strategy for achieving these reductions is found in the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles* (CARB 2000). To monitor the effectiveness of the efforts to reduce DPM, CARB has supported field campaigns that measure real-world emissions from heavy-duty vehicles, and results indicate that regulations aimed at reducing emissions of DPM have been successful.

CARB published the *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB 2005). The handbook makes recommendations directed at protecting sensitive land uses from air pollutant emissions while balancing a myriad of other land use issues (e.g., housing, transportation needs, economics, etc.). It notes that the handbook is not regulatory or binding on local agencies and recognizes that application takes a qualitative approach. As reflected in the CARB Handbook, there is currently no adopted standard for the significance of health effects from mobile sources. Therefore, the CARB has provided guidelines for the siting of land uses near heavily traveled roadways. Of pertinence to this study, the CARB guidelines indicate that siting new sensitive land uses within 500 feet of a freeway or urban roads with 100,000 or more vehicles per day should be avoided when possible.

As an ongoing process, CARB will continue to establish new programs and regulations for the control of diesel particulate and other air-toxics emissions as appropriate. The continued development and implementation of these programs and policies will ensure that the public's exposure to DPM will continue to decline.

2.2.3 State Implementation Plan

The State Implementation Plan (SIP) is a collection of documents that set forth the state's strategies for achieving the NAAQS. In California, the SIP is a compilation of new and previously submitted plans, programs (such as air quality management plans, monitoring, modeling, permitting, etc.), district rules, state regulations, and federal controls. The CARB is the lead agency for all purposes related to the SIP under state law. Local air districts and other agencies, such as the Department of Pesticide Regulation and the Bureau of Automotive Repair, prepare SIP elements and submit them to CARB for review and approval. The CARB then forwards SIP revisions to the U.S. EPA for approval and publication in the Federal Register. All of the items included in the California SIP are listed in the Code of Federal Regulations at 40 CFR 52.220.

2.2.4 The California Environmental Quality Act

Section 15125(d) of the CEQA Guidelines requires discussion of any inconsistencies between the project and applicable general plans and regional plans, including the applicable air quality attainment or maintenance plan (or SIP).

2.3 San Diego Air Pollution Control District

The SDAPCD is the agency that regulates air quality in the SDAB. The SDAPCD prepared the Regional Air Quality Standards (RAQS) in response to the requirements set forth in the California CAA AB 2595 (SDAPCD 1992) and the federal CAA. Motor vehicles are San Diego County's leading source of air pollution. In addition to these sources, other mobile sources include construction equipment, trains, and airplanes. Reducing mobile source emissions requires the technological improvement of existing mobile sources and the examination of future mobile sources, such as those associated with new or modification projects (e.g., retrofitting older vehicles with cleaner emission technologies). In addition to mobile sources, stationary sources also contribute to air pollution in the SDAB. Stationary sources include gasoline stations, power plants, dry cleaners, and other commercial and industrial uses. Stationary sources of air pollution are regulated by the local air pollution control or management district, in this case the SDAPCD.

The SDAPCD is responsible for preparing and implementing the RAQS. As part of the RAQS, the SDAPCD developed transportation control measures (TCM) for the air quality plan prepared by the San Diego Association of Governments (SANDAG) in accordance with AB 2595 and adopted by SANDAG on March 27, 1992, as Resolution Number 92-49 and Addendum. The RAQS and TCM set forth the steps needed to accomplish attainment of NAAQS and CAAQS. The most recent update of the RAQS (2022 RAQS) and corresponding TCM was adopted in March 2023 (SDAPCD 2022).

The SDAPCD has also established a set of rules and regulations initially adopted on January 1, 1969, and periodically reviewed and updated. These rules and regulations are available for review on the agency's website (https://www.sdapcd.org/content/sdapcd/rules.html).

3.0 Environmental Setting

3.1 Geographic Setting

The project is located within the Midway-Pacific Highway Community Plan area, about three miles east of the Pacific Ocean. The eastern portion of the SDAB is surrounded by mountains to the north, east, and south. These mountains tend to restrict airflow and concentrate pollutants in the valleys and low-lying areas below. The project site sits to the west of the intersection of Midway Drive and Barnett Avenue, with Midway Drive bounding the project site on the northeast and Barnett Avenue bounding the project site on the southeast. To the west are residential and commercial land uses and Dewey Elementary School. It is within the Dutch Flats Urban Village of the Midway-Pacific Highway Community Plan area.

3.2 Climate

The project area, like the rest of San Diego County, has a Mediterranean climate characterized by warm, dry summers and mild winters. The mean annual temperature for the project area is 63 degrees Fahrenheit (°F). The average annual precipitation is 10 inches, falling primarily from November to April. Winter low temperatures in the project area average about 49°F, and summer high temperatures average about 74°F. The average relative humidity is 69 percent and is based on the yearly average humidity at Lindbergh Field (Western Regional Climate Center 2025).

The dominant meteorological feature affecting the region is the Pacific High Pressure Zone, which produces the prevailing westerly to northwesterly winds. These winds tend to blow pollutants away from the coast toward the inland areas. Consequently, air quality near the coast is generally better than that which occurs at the base of the coastal mountain range.

Fluctuations in the strength and pattern of winds from the Pacific High Pressure Zone interacting with the daily local cycle produce periodic temperature inversions that influence the dispersal or containment of air pollutants in the SDAB. Beneath the inversion layer pollutants become "trapped" as their ability to disperse diminishes. The mixing depth is the area under the inversion layer. Generally, the morning inversion layer is lower than the afternoon inversion layer. The greater the change between the morning and afternoon mixing depths, the greater the ability of the atmosphere to disperse pollutants.

Throughout the year, the height of the temperature inversion in the afternoon varies between approximately 1,500 and 2,500 feet above mean sea level. In winter, the morning inversion layer is about 800 feet above mean sea level. In summer, the morning inversion layer is about 1,100 feet above mean sea level. Therefore, air quality generally tends to be better in the winter than in the summer.

The prevailing westerly wind pattern is sometimes interrupted by regional "Santa Ana" conditions. A Santa Ana occurs when a strong high pressure develops over the Nevada-Utah area and overcomes the prevailing westerly coastal winds, sending strong, steady, hot, dry northeasterly winds over the mountains and out to sea.

Strong Santa Anas tend to blow pollutants out over the ocean, producing clear days. However, at the onset or during breakdown of these conditions, or if the Santa Ana is weak, local air quality may be adversely affected. In these cases, emissions from the South Coast Air Basin to the north are blown out over the ocean, and low pressure over Baja California draws this pollutant-laden air mass southward. As the high pressure weakens, prevailing northwesterly winds reassert themselves and send this cloud of contamination ashore in the SDAB. When this event does occur, the combination of transported and locally produced contaminants produce the worst air quality measurements recorded in the SDAB.

3.3 Existing Air Quality

Air quality at a particular location is a function of the kinds, amounts, and dispersal rates of pollutants being emitted into the air locally and throughout the basin. The major factors affecting pollutant dispersion are wind speed and direction, the vertical dispersion of pollutants (which is affected by inversions), and the local topography.

Air quality is commonly expressed as the number of days in which air pollution levels exceed state standards set by the CARB or federal standards set by the U.S. EPA. The SDAPCD maintains 10 air quality monitoring stations located throughout the greater San Diego metropolitan region. Air pollutant concentrations and meteorological information are continuously recorded at these stations. Measurements are then used by scientists to help forecast daily air pollution levels.

The San Diego – Kearny Villa Road monitoring station located at 6125A Kearny Villa Road, approximately 8 miles northeast of the project site, is the nearest station to the project site. The San Diego – Kearny Villa Road monitoring station measures ozone, NO_2, and $PM_{2.5}$. Table 6 provides a summary of measurements collected at the San Diego – Kearny Villa Road monitoring station for the years 2022 through 2024.

Table 6
Summary of Air Quality Measurements Recorded at the San Diego – Kearny Villa Road Air Quality Monitoring Station

Pollutant/Standard	2022	2023	2024
Ozone			
Federal Max 8-hr (ppm)	0.083	0.079	0.080
Days 2008 Federal 8-hour Standard Exceeded (0.075 ppm)	2	3	3
Days 2015 Federal 8-hour Standard Exceeded (0.070 ppm)	1	1	1
State Max 8-hr (ppm)	0.083	0.080	0.081
Days State 8-hour Standard Exceeded (0.07 ppm)	2	3	3
Max. 1-hr (ppm)	0.095	0.091	0.112
Days State 1-hour Standard Exceeded (0.09 ppm)	1	0	2
Nitrogen Dioxide			
Max 1-hr (ppm)	0.0512	0.0384	0.0421
Days State 1-hour Standard Exceeded (0.18 ppm)	0	0	0
Days Federal 1-hour Standard Exceeded (0.100 ppm)	0	0	0
Annual Average (ppm)	0.008	0.006	0.005
$PM_{2.5}$*			
Federal Max. Daily ($\mu g/m^3$)	13.9	24.5	21.1

Table 6 Summary of Air Quality Measurements Recorded at the San Diego – Kearny Villa Road Air Quality Monitoring Station			
Pollutant/Standard	2022	2023	2024
Measured Days Federal 24-hour Standard Exceeded (35 μg/m^3)	0	0	0
Calculated Days Federal 24-hour Standard Exceeded (35 μg/m^3)	0.0	0.0	0.0
Federal Annual Average (μg/m^3)	6.8	7.0	8.0
State Max. Daily (μg/m^3)	--	--	--
State Annual Average (μg/m^3)	--	--	--
SOURCE: CARB 2026. ppm = parts per million; mg/m3 = micrograms per cubic meter; -- = not available. * Calculated days value. Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.			

4.0 Methodology

Construction impacts are short term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional or local. In the case of this project, operational impacts are primarily due to emissions from project-related mobile sources associated with vehicular travel along the roadways. Operational emissions also consist of area sources that are direct sources of emissions located at the project site.

Construction and operation air emissions were calculated using California Emissions Estimator Model (CalEEMod) 2022.1.1.37 (California Air Pollution Control Officers Association 2022). The CalEEMod program is a tool used to estimate air emissions resulting from land development projects based on California-specific emission factors. The model estimates mass emissions from two basics sources: construction sources and operational sources (i.e., area, energy, and mobile sources).

Inputs to CalEEMod include such items as the air basin containing the project, land uses, trip generation rates, trip lengths, vehicle fleet mix (percentage of autos, medium truck, etc.), trip destination (i.e., percent of trips from home to work, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters. The CalEEMod output files presented in Attachments 1 and 2 indicate the specific outputs for each model run. Emissions of NO_X, CO, SO_X, PM_{10}, $PM_{2.5}$, and ROG are calculated. Emission factors are not available for lead and consequently lead emissions are not calculated. The SDAB is currently in attainment of the federal and state lead standards. Furthermore, fuel used in construction equipment and most other vehicles is not leaded.

4.1 Land Use

For the purposes of this air quality analysis, the most impactful development scenarios would be those that generate the most traffic. Using the land use data provided in Tables 2 through 4 along with trip generation data provided by the project traffic engineer, it was determined that the most impactful development scenario under the existing CO-3-1 zoning would be a mixed-use residential, retail, and office development, and the most impactful development scenario under the proposed RM-3-9 zoning would be a mixed-use residential and retail (specifically Food, Beverage, and Groceries). Maximum trip generation rates for these land uses are six trips per multi-family dwelling unit, 50 trips per 1,000 square feet of office use, and 150 trips per 1,000 square feet of retail use. These non-residential trip

generation rates are based on medical office land uses and supermarket grocery land uses. All other office and retail land uses would generate less traffic than these land uses. The most impactful development scenarios and trip generation are summarized in Table 7.

Table 7
Modeled Maximum Development Scenarios

Land Use	Amount	Trip Generation Rate	Total Trips
Existing Zoning (CO-3-1)			
Multi-Family Residential	699 units	6 trips per unit	4,194
Office	1,188,535 sf	50 trips per 1,000 sf	59,427
Retail	209,741 sf	150 trips per sf	31,461
Total Trips			95,082
Proposed Zoning (RM-3-9)			
Multi-Family Residential	1,165 units	6 trips per unit	6,990
Retail	188,767 sf	150 trips per sf	28,315
Total Trips			35,305
Difference in Trips			-59,777

4.2 Construction Emissions

Construction-related activities are temporary, short-term sources of emissions. Sources of construction-related emissions include the following:

- fugitive dust from grading activities;
- construction equipment exhaust; and
- construction-related trips by workers, delivery trucks, and material-hauling trucks.

The project does not propose any construction activities at this time. However, in order to compare the potential impacts associated with the project, construction emissions were calculated for the most impactful development scenarios under both the existing and proposed zoning designations (see Table 7). Construction emissions were modeled for the soonest construction years of 2027 and 2028.

Construction-related emissions include emissions from dust raised during grading, exhaust from construction vehicles, and chemicals used during construction. Fugitive dust emissions vary greatly during construction and are dependent on the amount and type of activity, silt content of the soil, and the weather. Vehicles moving over paved and unpaved surfaces, excavation, earth movement, grading, and wind erosion from exposed surfaces are all sources of fugitive dust. Construction operations are subject to the requirements established in SDAPCD Regulation 4, Rules 50, 51, and 55. Rule 50 sets limits on the amount of particulate matter that can be discharged into the atmosphere. Rule 51 sets limits on the amount of dust and fumes that can be released into the atmosphere. Rule 55 regulates fugitive dust and provides roadway dust track-out/carry-out requirements.

Heavy-duty construction equipment is usually diesel-powered. Standard construction equipment includes dozers, rollers, scrapers, dewatering pumps, backhoes, loaders, paving equipment, delivery/haul trucks, jacking equipment, welding machines, pile drivers, and so on. As no development is proposed, specific construction phasing and

equipment parameters are not available. However, CalEEMod can estimate the required construction equipment when project-specific information is unavailable. The estimates are based on surveys, performed by the South Coast Air Quality Management District and the Sacramento Metropolitan Air Quality Management District, of typical construction projects that provide a basis for scaling equipment needs and schedule with a project's size. Air emission estimates in CalEEMod are based on the duration of construction phases; construction equipment type, quantity, and usage; grading area; season; and ambient temperature, among other parameters. The construction schedule is based on the default construction phases, which include demolition, site preparation, grading, building construction, paving, and architectural coatings. As a worst-case analysis, it was assumed that all recently constructed on-site buildings would be demolished. For both scenarios, CalEEMod default construction phases and equipment were modeled with the exception of architectural coatings. It was assumed that architectural coatings would occur during the last third of building construction, since buildings constructed during earlier phases would be painted as later phase construction continues.

Table 8 summarizes the total projected construction maximum daily emission levels for each criteria pollutant for construction under both the existing and proposed zoning and compares emissions to the City's screening level thresholds. The CalEEMod output files for development under the existing zoning are presented in Attachment 1. The CalEEMod output files for development under the proposed zoning are presented in Attachment 2.

Table 8
Maximum Daily Construction Emissions

Scenario/Year	Emissions (pounds per day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing Zoning (CO-3-1)						
Summer						
2027	5	21	56	<1	11	3
2028	126	21	62	<1	12	3
Maximum Daily Emissions[1]	**126**	**21**	**62**	**<1**	**12**	**3**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Winter						
2027	5	41	52	<1	25	5
2028	126	22	57	<1	12	3
Maximum Daily Emissions[1]	**126**	**41**	**57**	**<1**	**25**	**5**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Proposed Zoning (RM-3-9)						
Summer						
2027	4	16	52	<1	9	2
2028	97	17	58	<1	10	3
Maximum Daily Emissions[1]	**97**	**17**	**58**	**<1**	**10**	**3**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Winter						
2027	4	41	48	<1	25	5
2028	97	17	53	<1	10	3
Maximum Daily Emissions[1]	**97**	**41**	**53**	**<1**	**25**	**5**

Table 8 Maximum Daily Construction Emissions						
	Emissions (pounds per day)					
Scenario/Year	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Difference (Proposed Zoning – Existing Zoning)						
Summer Maximum Daily Emissions	-29	-4	-4	-<1	-2	-<1
Winter Maximum Daily Emissions	-29	0	-4	0	0	0
[1] Emissions were rounded to the nearest whole number. Emissions reported as <1 indicate that emissions were calculated to be less than 0.5 pound per day.						

4.3 Operational Emissions

Mobile source emissions would originate from traffic generated by the project. Area source emissions would result from the use of consumer products, applying architectural coatings, and landscaping activities. Energy sources of emissions result from the use of natural gas. As with the CPU PEIR, emissions were calculated for buildout year 2035. Emissions were calculated for the most-impactful development scenarios discussed in Section 4.1.

4.3.1 Mobile Sources

Mobile source operational emissions are based on the trip rate, trip length, and vehicle mix. Trip generation is summarized in Table 7. Based on the CPU PEIR, a trip length of 2.7 miles was modeled (City of San Diego 2018). CalEEMod default vehicle emission factors based on CARB's EMissions FACtor model were used.

4.3.2 Area Sources

Area sources are defined as direct sources of operational emissions located at the project site. Area source emissions associated with the project include consumer products, architectural coatings, and landscaping equipment. Hearths (fireplaces) and woodstoves are also a source of area emissions; however, the project would not include hearths or woodstoves. Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents, cleaning compounds, polishes, floor finishes, disinfectants, sanitizers, and aerosol paints, but not including other paint products, furniture coatings, or architectural coatings. Emissions due to consumer products are calculated using total building area and product emission factors.

For architectural coatings, emissions result from evaporation of solvents contained in surface coatings such as paints and primers. Emissions are based on the building surface area, architectural coating emission factors, and a reapplication rate of 10 percent of area per year. Landscaping maintenance includes fuel combustion emission from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers, as well as air compressors, generators, and pumps. Emission calculations take into account building area, equipment emission factors, and the number of operational days (summer days).

4.3.3 Energy Sources

Energy source emissions associated with the project include natural gas used in space and water heating. Emissions are generated from the combustion of natural gas used in space and water heating. Emissions are based on the Residential Appliance Saturation Survey, which is a comprehensive energy use assessment that includes the end use for various climate zones in California.

4.3.4 Total Operational Emissions

Table 9 provides a summary of the operational emissions generated by the most impactful development scenarios under both the existing and proposed zoning. The CalEEMod output files for development under the existing zoning are presented in Attachment 1. The CalEEMod output files for development under the proposed zoning are presented in Attachment 2.

Table 9
Daily Operational Emissions

Scenario/Source	Emissions (pounds per day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing Zoning (CO-3-1)						
Summer						
Mobile	225	85	902	2	182	47
Area	61	1	101	<1	<1	<1
Energy	1	12	9	<1	1	1
Total Daily Emissions[1]	**287**	**98**	**1,012**	**2**	**183**	**48**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*Yes*	*No*	*Yes*	*No*	*Yes*	*No*
Winter						
Mobile	223	94	931	2	182	47
Area	48	<1	<1	<1	<1	<1
Energy	1	12	9	<1	1	1
Total Daily Emissions[1]	**271**	**106**	**940**	**2**	**183**	**48**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*Yes*	*Yes*	*No*	*No*	*Yes*	*No*
Proposed Zoning (RM-3-9)						
Summer						
Mobile	84	32	335	1	68	17
Area	39	1	75	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Total Daily Emissions[1]	**122**	**35**	**411**	**1**	**68**	**18**
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Winter						
Mobile	83	35	346	1	68	17
Area	32	<1	<1	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Total Daily Emissions[1]	**115**	**37**	**347**	**1**	**68**	**18**

Table 9 Daily Operational Emissions						
Scenario/Source	Emissions (pounds per day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
City Screening Level Threshold	*137*	*250*	*550*	*250*	*100*	*67*
Exceeds Threshold?	*No*	*No*	*No*	*No*	*No*	*No*
Difference (Proposed Zoning – Existing Zoning)						
Summer Total Daily Emissions	-164	-63	-602	-1	-115	-30
Winter Total Daily Emissions	-157	-69	-593	-1	-115	-30
[1] Emissions were rounded to the nearest whole number. Emissions reported as <1 indicate that emissions were calculated to be less than 0.5 pound per day.						

5.0 Significance Thresholds

Based on the CEQA Guidelines Appendix G, impacts related to air quality would be significant if the project would:

1. Conflict with or obstruct implementation of the applicable air quality plan.

2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.

3. Expose sensitive receptors to substantial pollutant concentrations.

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

6.0 Air Quality Impact Analysis

6.1 Issue 1: Conflict with Air Quality Plan

The CPU PEIR determined that the net increase in construction and operational emissions under the CPU over the previously adopted Community Plan would not result in the generation of criteria air pollutants that would exceed any of the thresholds. Thus, emissions associated with the CPU are already accounted for in the RAQS, and adoption of the project would not conflict with the RAQS. Impacts would be less than significant, and no mitigation is required.

The growth projections used by the SDAPCD to develop the RAQS emissions budgets are based on the population, vehicle trends, and land use plans developed in general plans and used by SANDAG in the development of the regional transportation plans and sustainable communities strategy. As such, projects that propose development that is consistent with the growth anticipated by SANDAG's growth projections and/or the General Plan would not conflict with the RAQS. In the event that a project would propose development that is less dense than anticipated by the growth projections, the project would likewise be consistent with the RAQS. In the event a project proposes development that is greater than anticipated in the growth projections, further analysis would be warranted to determine if the project would exceed the growth projections used in the RAQS for the specific subregional area. As shown in Table 7, most impactful development under the proposed RM-3-9 zoning would result in less traffic and less density than development under the existing CO-3-1 zoning. As a result, as summarized in Tables 8 and 9, construction and operational emissions would be less when compared to the existing zoning. Therefore, the project would be consistent with the growth projections accounted for in the RAQS. Further, as shown in Tables 8 and 9, most impactful development under the proposed RM-3-9 zoning would not result in construction or operational

emissions in excess of the applicable significance thresholds for all criteria pollutants. The project would, therefore, not result in an increase in emissions that are not already accounted for in the RAQS. Thus, the project would not obstruct or conflict with implementation of the RAQS. Impacts would be considered less than significant. This is consistent with the conclusions of the PEIR.

6.2 Issue 2: Air Quality Standards

The CPU PEIR calculated construction-related emissions under the proposed CPU and determined that construction emissions associated with build-out of individual projects under the CPU would not exceed any of the significance thresholds. Thus, construction emissions would be less than significant and no mitigation is required. The CPU PEIR also calculated operational emissions associated with the proposed CPU as well as the previously adopted Community Plan. The PEIR determined that the net increase in emissions compared to the previous Community Plan would not exceed the applicable thresholds of significance. Therefore, air emissions from build-out of the CPU would not significantly increase air pollutants in the region, would not further increase the frequency of existing violations of NAAQS or CAAQS, or would not result in new exceedances. Therefore, operational air quality impacts would be less than significant. Thus, no mitigation is required.

As shown in Table 7, most impactful development under the proposed RM-3-9 zoning would result in less traffic and less density than development under the existing CO-3-1 zoning. As a result, as summarized in Tables 8 and 9, construction and operational emissions would be less when compared to the existing zoning. Further, as shown in Tables 8 and 9, most impactful development under the proposed RM-3-9 zoning would not result in construction or operational emissions in excess of the applicable significance thresholds for all criteria pollutants. Therefore, construction and operational emissions would be less than significant. This is consistent with the conclusions of the PEIR.

6.3 Issue 3: Substantial Pollutant Concentrations

The CPU PEIR determined that implementation of the CPU would not result in any CO hotspots. Additionally, impacts associated with TACs generated during potential construction activities would be less than significant given the temporary nature of construction and the highly dispersive nature of DPM. Stationary sources such as gas stations, power plants, dry cleaners, and other commercial and industrial uses would be regulated through the issuance of permits by the SDAPCD. In accordance with AB 2588, if adverse health impacts exceeding public notification levels are identified, the facility would provide public notice, and if the facility poses a potentially significant public health risk, the facility must submit a risk reduction audit and plan to demonstrate how the facility would reduce health risks. Thus, with this regulatory framework, at the program level, impacts associated with stationary sources in the CPU would be less than significant. With regard to the siting of sensitive receptors, the PEIR determined that implementation of the CPU is consistent with the goals of the CARB Air Quality and Land Use Handbook (CARB 2005) and would not expose sensitive receptors to substantial pollutant concentrations. Air quality impacts to sensitive receptors would be less than significant, and no mitigation is required.

Impacts associated with the project would be the same as those identified in the PEIR. As shown in Table 7, most impactful development under the proposed zoning would result in a decrease in traffic, therefore, the project would not result in a CO hot spot. Construction-related emissions under the proposed zoning would be similar or reduced compared to those under the existing zoning, and given the temporary nature of construction and the highly dispersive nature of DPM, construction-related impacts would be less than significant. As analyzed in the PEIR, stationary sources would be regulated through the issuance of permits by the SDAPCD. Lastly, the project site is not located within the 500-foot siting distance from freeways. Thus, consistent with the conclusions of the PEIR, impacts associated with sensitive receptors would be less than significant.

6.4 Issue 4: Odors

The CPU PEIR determined that odors generated during future construction activities would be localized and generally confined to the immediate area surrounding the development area. Projects constructed under the CPU would use typical construction techniques, and the odors would be typical of most construction sites and temporary in nature. Therefore, construction-generated odors would not result in frequent exposure of on-site receptors to objectionable odor emissions. The PEIR also determined that planned land uses would not encourage or support uses that would be associated with significant odor generation. Impacts associated with odors would be less than significant, and no mitigation is required.

Sensitive receptors near the project site include residential uses; however, exposure to odors associated with project construction would be short term and temporary in nature. As analyzed in the PEIR, odors generated during future construction activities would be localized and generally confined to the immediate area surrounding the development area. Construction-related odors would be less than significant. Additionally, the land uses that could be constructed under the proposed RM-3-9 zoning would be consistent with those allowable under the existing CO-3-1 zoning and are not anticipated to be an operational source of odors. Thus, the project would not generate objectionable odors affecting a substantial number of people. Thus, consistent with the conclusions of the PEIR, impacts associated with odors would be less than significant.

7.0 Conclusions

Based on the foregoing analysis and information, there is no evidence that the project would require a major change to the CPU PEIR. The project would not result in any new significant impacts, nor would a substantial increase in the severity of impacts from that described in the CPU PEIR.

If you have any questions about the results of this analysis, please contact me at jfleming@reconenvironmental.com or (619) 308-9333, ext. 177.

Sincerely,



Jessica Fleming
Senior Air Quality Specialist

JLF:sjg

8.0 Certification

The following is a list of preparers, persons, and organizations involved with the noise assessment.

RECON Environmental, Inc.
- Jessica Fleming, Senior Air Quality Specialist
- Lori Spar, CEQA Director
- Leah Boyer, Project Manager
- Steven Gaughran, Production Specialist
- Benjamin Arp, GIS Specialist

9.0 References Cited

California Air Pollution Control Officers Association
2022 California Emissions Estimator Model (CalEEMod). User's Guide Version 2022.1.

California Air Resources Board (CARB)
2000 *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. California Air Resources Board. Stationary Source Division, Mobile Source Control Division. October.

2005 Air Quality and Land Use Handbook: A Community Health Perspective. California Air Resources Board. April.

2024 Ambient Air Quality Standards. California Air Resources Board. Updated July 16.

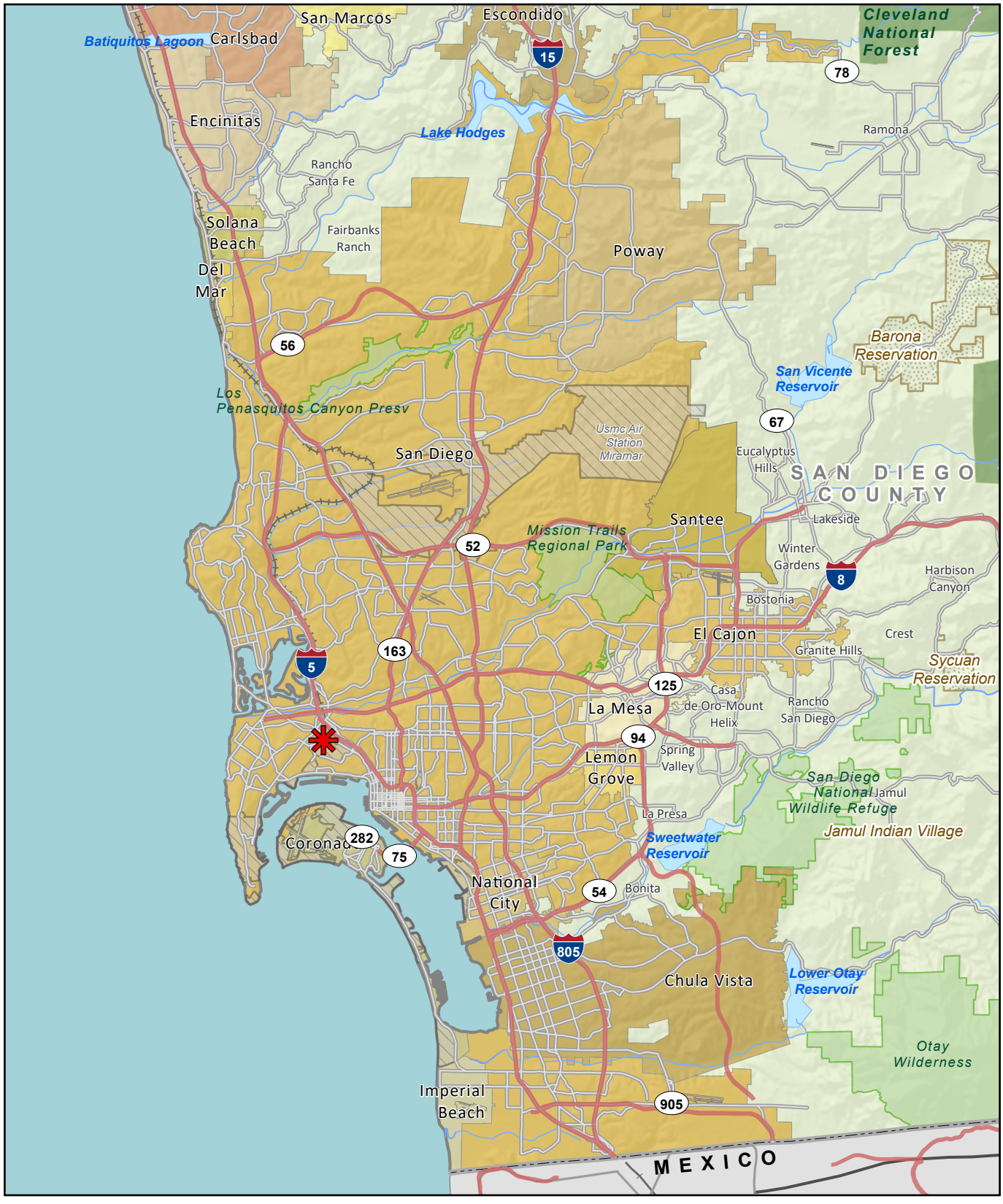
2026 *California Air Quality Data Statistics. California Air Resources Board Internet Site*. http://www.arb.ca.gov/adam/welcome.html. Accessed January 28, 2026.

San Diego Air Pollution Control District (SDAPCD)
1992 1991/1992 Regional Air Quality Strategies. Air Pollution Control District. June.

2022 2022 Regional Air Quality Strategy.

San Diego, City of
2018 Midway-Pacific Highway Community Plan Update Revised Final Program Environmental Impact Report. SCH #2015111013. Prepared by AECOM. May 2018.

Western Regional Climate Center
2025 Western U.S. Climate Historical Summaries. https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7740. Accessed June 27, 2025.



Project Location

RECON

M:\JOBS6\10498\common_gis\PRO\standard_figures\standardfigures.aprx 01/28/2026 bma

FIGURE 1
Regional Location

Image Source: Nearmap (flown January 2026)



0 Feet 500

Project Boundary

Project Phases

RECON

FIGURE 2
Project Location on Aerial Photograph

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ATTACHMENT 1

CalEEMod Output
Existing CO-3-1 Zoning Detailed Report

Post Point - Existing CO-3-1 Zoning Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Post Point - Existing CO-3-1 Zoning
Construction Start Date	1/1/2027
Operational Year	2035
Lead Agency	City of San Diego
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.70000
Precipitation (days)	20.0000
Location	32.74544455306918, -117.20140878908921
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6410
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.37

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 Mid Rise	699.000	Dwelling Unit	5.85000	699,138	0.00000	—	1,950.00	—

General Office Building	1,188.54	1000sqft	8.68000	1,188,535	0.00000	—	—	—
Strip Mall	209.741	1000sqft	1.53000	209,741	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	126.783	125.899	21.2710	62.4504	0.07625	0.43881	11.5937	12.0115	0.41189	2.79900	3.19159	—	19,893.4	19,893.4	0.77302	1.42194	45.1578	20,376.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	126.731	125.835	40.7110	57.0572	0.13901	1.17173	24.3843	25.4845	1.07799	4.22475	5.15984	—	19,357.7	19,357.7	0.95218	2.53290	1.16938	20,137.1
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	31.4607	31.2018	16.9539	32.8604	0.05450	0.41685	7.22136	7.63820	0.38373	1.76089	2.14461	—	11,550.3	11,550.3	0.51657	0.88362	11.2272	11,837.7
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.74158	5.69433	3.09408	5.99703	0.00995	0.07607	1.31790	1.39397	0.07003	0.32136	0.39139	—	1,912.28	1,912.28	0.08552	0.14629	1.85879	1,959.87
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	55.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	55.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.43808	4.63855	20.9546	56.2566	0.07452	0.43881	9.98556	10.4244	0.41189	2.42206	2.83395	—	18,391.1	18,391.1	0.77302	1.35810	44.4654	18,859.6
2028	126.783	125.899	21.2710	62.4504	0.07625	0.41783	11.5937	12.0115	0.39259	2.79900	3.19159	—	19,893.4	19,893.4	0.55021	1.42194	45.1578	20,376.0
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.35510	4.53461	40.7110	51.5851	0.13901	1.17173	24.3843	25.4845	1.07799	4.22475	5.15984	—	19,357.7	19,357.7	0.95218	2.53290	1.15157	20,137.1
2028	126.731	125.835	22.0111	57.0572	0.07625	0.41783	11.5937	12.0115	0.39259	2.79900	3.19159	—	19,330.2	19,330.2	0.57536	1.42194	1.16938	19,769.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.51308	2.93550	16.9539	32.8604	0.05450	0.41685	7.22136	7.63820	0.38373	1.76089	2.14461	—	11,550.3	11,550.3	0.51657	0.88362	11.2272	11,837.7
2028	31.4607	31.2018	6.45301	16.4137	0.02204	0.13042	3.15789	3.28831	0.12227	0.76238	0.88465	—	5,464.05	5,464.05	0.16322	0.39674	5.39225	5,591.75
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.64114	0.53573	3.09408	5.99703	0.00995	0.07607	1.31790	1.39397	0.07003	0.32136	0.39139	—	1,912.28	1,912.28	0.08552	0.14629	1.85879	1,959.87
2028	5.74158	5.69433	1.17767	2.99550	0.00402	0.02380	0.57632	0.60012	0.02232	0.13913	0.16145	—	904.635	904.635	0.02702	0.06568	0.89275	925.778

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	298.686	286.851	97.8246	1,012.31	1.95234	2.16749	181.193	183.360	2.06034	45.9442	48.0045	1,474.56	217,482	218,957	165.098	11.5691	212.690	226,745
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	282.759	271.417	105.837	939.896	1.86787	2.04284	181.193	183.236	1.96634	45.9442	47.9105	1,474.56	209,124	210,599	166.455	12.2463	14.4804	218,424
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	285.911	274.219	104.184	969.760	1.88219	2.10421	178.863	180.967	2.01260	45.3618	47.3744	1,474.56	210,481	211,956	166.070	12.0814	97.0677	219,805
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	52.1788	50.0449	19.0135	176.981	0.34350	0.38402	32.6425	33.0265	0.36730	8.27853	8.64583	244.130	34,847.5	35,091.7	27.4947	2.00022	16.0707	36,391.2
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	54.0000	—	—	—	—	—	—	—
Unmit.	—	Yes	No	Yes	No	—	—	Yes	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	54.0000	—	—	—	—	—	—	—
Unmit.	—	Yes	No	Yes	No	—	—	Yes	—	—	No	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

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

Mobile	235.076	224.918	85.2307	902.315	1.87621	1.14523	181.193	182.338	1.06877	45.9442	47.0130	—	191,129	191,129	12.8925	10.0851	203.486	194,661
Area	62.3123	61.2848	0.87778	100.669	0.00535	0.12577	—	0.12577	0.09508	—	0.09508	0.00000	356.106	356.106	0.01492	0.00303	—	357.381
Energy	1.29754	0.64877	11.7161	9.32376	0.07078	0.89648	—	0.89648	0.89648	—	0.89648	—	25,201.7	25,201.7	3.41022	0.28888	—	25,373.0
Water	—	—	—	—	—	—	—	—	—	—	—	481.621	795.165	1,276.79	49.5394	1.19211	—	2,870.52
Waste	—	—	—	—	—	—	—	—	—	—	—	992.940	0.00000	992.940	99.2407	0.00000	—	3,473.96
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.20406	9.20406
Total	298.686	286.851	97.8246	1,012.31	1.95234	2.16749	181.193	183.360	2.06034	45.9442	48.0045	1,474.56	217,482	218,957	165.098	11.5691	212.690	226,745
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	233.602	222.908	94.1207	930.573	1.79709	1.14636	181.193	182.339	1.06985	45.9442	47.0140	—	183,127	183,127	14.2646	10.7653	5.27632	186,697
Area	47.8597	47.8597	0.00000	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	1.29754	0.64877	11.7161	9.32376	0.07078	0.89648	—	0.89648	0.89648	—	0.89648	—	25,201.7	25,201.7	3.41022	0.28888	—	25,373.0
Water	—	—	—	—	—	—	—	—	—	—	—	481.621	795.165	1,276.79	49.5394	1.19211	—	2,870.52
Waste	—	—	—	—	—	—	—	—	—	—	—	992.940	0.00000	992.940	99.2407	0.00000	—	3,473.96
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.20406	9.20406
Total	282.759	271.417	105.837	939.896	1.86787	2.04284	181.193	183.236	1.96634	45.9442	47.9105	1,474.56	209,124	210,599	166.455	12.2463	14.4804	218,424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	229.627	219.090	92.0348	910.791	1.80878	1.14570	178.863	180.009	1.06923	45.3618	46.4310	—	184,308	184,308	13.8719	10.5989	87.8637	187,902
Area	54.9870	54.4803	0.43288	49.6452	0.00264	0.06203	—	0.06203	0.04689	—	0.04689	0.00000	175.614	175.614	0.00736	0.00149	—	176.243
Energy	1.29754	0.64877	11.7161	9.32376	0.07078	0.89648	—	0.89648	0.89648	—	0.89648	—	25,201.7	25,201.7	3.41022	0.28888	—	25,373.0
Water	—	—	—	—	—	—	—	—	—	—	—	481.621	795.165	1,276.79	49.5394	1.19211	—	2,870.52
Waste	—	—	—	—	—	—	—	—	—	—	—	992.940	0.00000	992.940	99.2407	0.00000	—	3,473.96
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.20406	9.20406
Total	285.911	274.219	104.184	969.760	1.88219	2.10421	178.863	180.967	2.01260	45.3618	47.3744	1,474.56	210,481	211,956	166.070	12.0814	97.0677	219,805
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.9069	39.9839	16.7963	166.219	0.33010	0.20909	32.6425	32.8516	0.19513	8.27853	8.47366	—	30,514.4	30,514.4	2.29665	1.75478	14.5468	31,109.3
Area	10.0351	9.94265	0.07900	9.06025	0.00048	0.01132	—	0.01132	0.00856	—	0.00856	0.00000	29.0749	29.0749	0.00122	0.00025	—	29.1790

Energy	0.23680	0.11840	2.13819	1.70159	0.01292	0.16361	—	0.16361	0.16361	—	0.16361	—	4,172.43	4,172.43	0.56460	0.04783	—	4,200.80
Water	—	—	—	—	—	—	—	—	—	—	—	79.7378	131.649	211.386	8.20181	0.19737	—	475.247
Waste	—	—	—	—	—	—	—	—	—	—	—	164.392	0.00000	164.392	16.4304	0.00000	—	575.153
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.52384	1.52384
Total	52.1788	50.0449	19.0135	176.981	0.34350	0.38402	32.6425	33.0265	0.36730	8.27853	8.64583	244.130	34,847.5	35,091.7	27.4947	2.00022	16.0707	36,391.2

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63907	2.21478	19.9005	18.6307	0.03253	0.79594	—	0.79594	0.73226	—	0.73226	—	3,426.90	3,426.90	0.13901	0.02780	—	3,438.66
Demolition	—	—	—	—	—	—	19.9933	19.9933	—	3.02755	3.02755	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14461	0.12136	1.09044	1.02086	0.00178	0.04361	—	0.04361	0.04012	—	0.04012	—	187.775	187.775	0.00762	0.00152	—	188.420

Demolition	—	—	—	—	—	—	1.09552	1.09552	—	0.16589	0.16589	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02639	0.02215	0.19901	0.18631	0.00033	0.00796	—	0.00796	0.00732	—	0.00732	—	31.0883	31.0883	0.00126	0.00025	—	31.1950
Demolition	—	—	—	—	—	—	0.19993	0.19993	—	0.03028	0.03028	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05685	0.05157	0.04621	0.54000	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	129.450	129.450	0.00693	0.00528	0.01149	131.209
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	0.00000
Hauling	1.15610	0.33973	20.7642	7.88483	0.10648	0.30424	4.26420	4.56844	0.20283	1.16746	1.37029	—	15,801.4	15,801.4	0.80623	2.49982	0.81066	16,567.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00310	0.00281	0.00251	0.02995	0.00000	0.00000	0.00686	0.00686	0.00000	0.00161	0.00161	—	7.15662	7.15662	0.00036	0.00027	0.01051	7.25701
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	0.00000
Hauling	0.06418	0.01917	1.13804	0.42955	0.00583	0.01667	0.23137	0.24804	0.01111	0.06340	0.07451	—	865.620	865.620	0.04418	0.13670	0.73901	908.200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00057	0.00051	0.00046	0.00547	0.00000	0.00000	0.00125	0.00125	0.00000	0.00029	0.00029	—	1.18486	1.18486	0.00006	0.00004	0.00174	1.20148
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	0.00000
Hauling	0.01171	0.00350	0.20769	0.07839	0.00106	0.00304	0.04222	0.04527	0.00203	0.01157	0.01360	—	143.313	143.313	0.00731	0.02263	0.12235	150.363

3.3. Site Preparation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63178	3.05170	27.9724	28.2794	0.04891	1.17173	—	1.17173	1.07799	—	1.07799	—	5,297.82	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09950	0.08361	0.76637	0.77478	0.00134	0.03210	—	0.03210	0.02953	—	0.02953	—	145.146	145.146	0.00589	0.00118	—	145.644
Dust From Material Movement	—	—	—	—	—	—	0.21003	0.21003	—	0.10794	0.10794	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01816	0.01526	0.13986	0.14140	0.00024	0.00586	—	0.00586	0.00539	—	0.00539	—	24.0305	24.0305	0.00097	0.00019	—	24.1130
Dust From Material Movement	—	—	—	—	—	—	0.03833	0.03833	—	0.01970	0.01970	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06632	0.06016	0.05391	0.63000	0.00000	0.00000	0.14800	0.14800	0.00000	0.03469	0.03469	—	151.025	151.025	0.00809	0.00616	0.01341	153.077
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00181	0.00164	0.00147	0.01747	0.00000	0.00000	0.00400	0.00400	0.00000	0.00094	0.00094	—	4.17469	4.17469	0.00021	0.00016	0.00613	4.23326
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00030	0.00027	0.00319	0.00000	0.00000	0.00073	0.00073	0.00000	0.00017	0.00017	—	0.69117	0.69117	0.00003	0.00003	0.00102	0.70086
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	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	0.00000

3.5. Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	—	—	3.58940	3.58940	—	1.42496	1.42496	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28811	0.24209	2.10247	2.24233	0.00501	0.08573	—	0.08573	0.07887	—	0.07887	—	542.308	542.308	0.02200	0.00440	—	544.169
Dust From Material Movement	—	—	—	—	—	—	0.29502	0.29502	—	0.11712	0.11712	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05258	0.04418	0.38370	0.40922	0.00091	0.01565	—	0.01565	0.01439	—	0.01439	—	89.7852	89.7852	0.00364	0.00073	—	90.0934

Dust From Material Movement	—	—	—	—	—	—	0.05384	0.05384	—	0.02137	0.02137	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07580	0.06876	0.06161	0.72000	0.00000	0.00000	0.16915	0.16915	0.00000	0.03965	0.03965	—	172.600	172.600	0.00925	0.00704	0.01532	174.945
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00619	0.00562	0.00503	0.05990	0.00000	0.00000	0.01372	0.01372	0.00000	0.00321	0.00321	—	14.3132	14.3132	0.00072	0.00054	0.02103	14.5140
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00113	0.00102	0.00092	0.01093	0.00000	0.00000	0.00250	0.00250	0.00000	0.00059	0.00059	—	2.36972	2.36972	0.00012	0.00009	0.00348	2.40296
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	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	0.00000

3.7. Building Construction (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66957	0.56029	5.10896	7.03865	0.01273	0.18311	—	0.18311	0.16846	—	0.16846	—	1,304.09	1,304.09	0.05290	0.01058	—	1,308.56
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12220	0.10225	0.93239	1.28455	0.00232	0.03342	—	0.03342	0.03074	—	0.03074	—	215.906	215.906	0.00876	0.00175	—	216.647
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.66611	3.35234	2.34312	38.9673	0.00000	0.00000	8.04055	8.04055	0.00000	1.88469	1.88469	—	8,687.52	8,687.52	0.39761	0.31377	28.1638	8,819.13
Vendor	0.54121	0.25634	9.22055	4.35129	0.05112	0.10224	1.94501	2.04725	0.10224	0.53737	0.63961	—	7,306.50	7,306.50	0.27818	1.02488	16.3016	7,635.17
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.60323	3.26850	2.92874	34.2264	0.00000	0.00000	8.04055	8.04055	0.00000	1.88469	1.88469	—	8,204.79	8,204.79	0.43953	0.33473	0.72831	8,316.26
Vendor	0.52112	0.23624	9.55233	4.42077	0.05112	0.10224	1.94501	2.04725	0.10224	0.53737	0.63961	—	7,311.39	7,311.39	0.28488	1.02488	0.42326	7,624.35
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.94887	1.76676	1.58192	18.8469	0.00000	0.00000	4.31813	4.31813	0.00000	1.01129	1.01129	—	4,503.60	4,503.60	0.22772	0.17070	6.61675	4,566.78
Vendor	0.28715	0.13217	5.15667	2.40004	0.02781	0.05562	1.04670	1.10232	0.05562	0.28949	0.34511	—	3,976.08	3,976.08	0.15498	0.55757	3.83378	4,149.94
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35567	0.32243	0.28870	3.43956	0.00000	0.00000	0.78806	0.78806	0.00000	0.18456	0.18456	—	745.622	745.622	0.03770	0.02826	1.09548	756.082
Vendor	0.05240	0.02412	0.94109	0.43801	0.00508	0.01015	0.19102	0.20117	0.01015	0.05283	0.06298	—	658.285	658.285	0.02566	0.09231	0.63473	687.070
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	0.00000

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68

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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33156	0.27745	2.49759	3.61984	0.00655	0.08402	—	0.08402	0.07730	—	0.07730	—	670.913	670.913	0.02722	0.00544	—	673.215
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06051	0.05063	0.45581	0.66062	0.00120	0.01533	—	0.01533	0.01411	—	0.01411	—	111.077	111.077	0.00451	0.00090	—	111.458
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.56131	3.24754	2.32216	36.8548	0.00000	0.00000	8.04055	8.04055	0.00000	1.88469	1.88469	—	8,532.90	8,532.90	0.14672	0.31377	25.5088	8,655.58
Vendor	0.54121	0.24964	8.75129	4.17113	0.05112	0.10224	1.94501	2.04725	0.10224	0.53737	0.63961	—	7,122.94	7,122.94	0.27148	1.02488	14.5472	7,449.69
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.54035	3.20562	2.65689	32.2599	0.00000	0.00000	8.04055	8.04055	0.00000	1.88469	1.88469	—	8,059.25	8,059.25	0.16768	0.31377	0.66014	8,157.60
Vendor	0.51442	0.23624	9.08977	4.29173	0.05112	0.10224	1.94501	2.04725	0.10224	0.53737	0.63961	—	7,128.14	7,128.14	0.27148	1.02488	0.37720	7,440.72
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97901	0.88534	0.73765	9.15020	0.00000	0.00000	2.22120	2.22120	0.00000	0.52019	0.52019	—	2,275.47	2,275.47	0.04692	0.08781	3.08230	2,305.89
Vendor	0.14771	0.06611	2.52309	1.18414	0.01431	0.02861	0.53841	0.56702	0.02861	0.14891	0.17752	—	1,993.93	1,993.93	0.07597	0.28681	1.75725	2,083.05
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17867	0.16157	0.13462	1.66991	0.00000	0.00000	0.40537	0.40537	0.00000	0.09494	0.09494	—	376.729	376.729	0.00777	0.01454	0.51031	381.766
Vendor	0.02696	0.01206	0.46046	0.21611	0.00261	0.00522	0.09826	0.10348	0.00522	0.02718	0.03240	—	330.118	330.118	0.01258	0.04748	0.29093	344.873
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	0.00000

3.11. Paving (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81550	0.68524	6.62754	9.90989	0.01395	0.25554	—	0.25554	0.23510	—	0.23510	—	1,511.03	1,511.03	0.06129	0.01226	—	1,516.22
Paving	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.04468	0.03755	0.36315	0.54301	0.00076	0.01400	—	0.01400	0.01288	—	0.01288	—	82.7962	82.7962	0.00336	0.00067	—	83.0803
Paving	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.00815	0.00685	0.06628	0.09910	0.00014	0.00256	—	0.00256	0.00235	—	0.00235	—	13.7079	13.7079	0.00056	0.00011	—	13.7549
Paving	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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05619	0.05124	0.03664	0.58147	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	134.627	134.627	0.00231	0.00495	0.40246	136.562
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	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00302	0.00274	0.00228	0.02827	0.00000	0.00000	0.00686	0.00686	0.00000	0.00161	0.00161	—	7.02954	7.02954	0.00014	0.00027	0.00952	7.12352
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00055	0.00050	0.00042	0.00516	0.00000	0.00000	0.00125	0.00125	0.00000	0.00029	0.00029	—	1.16382	1.16382	0.00002	0.00004	0.00158	1.17938
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	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	0.00000

3.13. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	120.653	120.653	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	120.653	120.653	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03202	0.02646	0.19927	0.27575	0.00043	0.00379	—	0.00379	0.00348	—	0.00348	—	32.9220	32.9220	0.00134	0.00027	—	33.0350

Architect Coatings	29.7502	29.7502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00584	0.00483	0.03637	0.05032	0.00008	0.00069	—	0.00069	0.00064	—	0.00064	—	5.45061	5.45061	0.00022	0.00004	—	5.46932
Architectural Coatings	5.42941	5.42941	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71226	0.64951	0.46443	7.37095	0.00000	0.00000	1.60811	1.60811	0.00000	0.37694	0.37694	—	1,706.58	1,706.58	0.02934	0.06275	5.10177	1,731.12
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	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70807	0.64112	0.53138	6.45198	0.00000	0.00000	1.60811	1.60811	0.00000	0.37694	0.37694	—	1,611.85	1,611.85	0.03354	0.06275	0.13203	1,631.52
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17253	0.15602	0.12999	1.61248	0.00000	0.00000	0.39143	0.39143	0.00000	0.09167	0.09167	—	400.991	400.991	0.00827	0.01547	0.54317	406.352
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03149	0.02847	0.02372	0.29428	0.00000	0.00000	0.07144	0.07144	0.00000	0.01673	0.01673	—	66.3887	66.3887	0.00137	0.00256	0.08993	67.2762
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	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	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	10.3690	9.92096	3.75947	39.8005	0.08276	0.05052	7.99229	8.04281	0.04714	2.02657	2.07371	—	8,430.60	8,430.60	0.56868	0.44485	8.97562	8,586.35
General Office Building	146.924	140.575	53.2697	563.952	1.17265	0.71578	113.247	113.962	0.66799	28.7154	29.3834	—	119,457	119,457	8.05791	6.30325	127.180	121,664
Strip Mall	77.7830	74.4218	28.2015	298.562	0.62081	0.37894	59.9539	60.3329	0.35364	15.2022	15.5559	—	63,241.8	63,241.8	4.26594	3.33701	67.3303	64,410.2
Total	235.076	224.918	85.2307	902.315	1.87621	1.14523	181.193	182.338	1.06877	45.9442	47.0130	—	191,129	191,129	12.8925	10.0851	203.486	194,661
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	10.3040	9.83235	4.15160	41.0469	0.07927	0.05057	7.99229	8.04286	0.04719	2.02657	2.07376	—	8,077.63	8,077.63	0.62920	0.47485	0.23273	8,235.10
General Office Building	146.002	139.319	58.8260	581.613	1.12319	0.71648	113.247	113.963	0.66866	28.7154	29.3841	—	114,456	114,456	8.91548	6.72839	3.29773	116,687

Strip Mall	77.2952	73.7570	31.1431	307.912	0.59463	0.37931	59.9539	60.3332	0.35400	15.2022	15.5562	—	60,594.1	60,594.1	4.71995	3.56208	1.74585	61,775.3
Total	233.602	222.908	94.1207	930.573	1.79709	1.14636	181.193	182.339	1.06985	45.9442	47.0140	—	183,127	183,127	14.2646	10.7653	5.27632	186,697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.84848	1.76366	0.74088	7.33183	0.01456	0.00922	1.43984	1.44906	0.00861	0.36516	0.37377	—	1,345.97	1,345.97	0.10130	0.07740	0.64165	1,372.21
General Office Building	26.1920	24.9902	10.4978	103.888	0.20632	0.13068	20.4018	20.5325	0.12196	5.17413	5.29609	—	19,071.7	19,071.7	1.43542	1.09675	9.09186	19,443.5
Strip Mall	13.8663	13.2301	5.55766	54.9995	0.10923	0.06919	10.8009	10.8701	0.06457	2.73924	2.80380	—	10,096.7	10,096.7	0.75993	0.58063	4.81333	10,293.6
Total	41.9069	39.9839	16.7963	166.219	0.33010	0.20909	32.6425	32.8516	0.19513	8.27853	8.47366	—	30,514.4	30,514.4	2.29665	1.75478	14.5468	31,109.3

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,101.57	1,101.57	0.21429	0.02597	—	1,114.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9,166.48	9,166.48	1.78320	0.21614	—	9,275.47
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	859.228	859.228	0.16715	0.02026	—	869.445
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,127.3	11,127.3	2.16464	0.26238	—	11,259.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,101.57	1,101.57	0.21429	0.02597	—	1,114.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9,166.48	9,166.48	1.78320	0.21614	—	9,275.47
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	859.228	859.228	0.16715	0.02026	—	869.445
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,127.3	11,127.3	2.16464	0.26238	—	11,259.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	182.378	182.378	0.03548	0.00430	—	184.546
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,517.62	1,517.62	0.29523	0.03579	—	1,535.66
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	142.255	142.255	0.02767	0.00335	—	143.947
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,842.25	1,842.25	0.35838	0.04344	—	1,864.15

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.14619	0.07309	1.24925	0.53160	0.00797	0.10100	—	0.10100	0.10100	—	0.10100	—	1,585.71	1,585.71	0.14033	0.00299	—	1,590.10

General Office Building	1.12454	0.56227	10.2231	8.58738	0.06134	0.77695	—	0.77695	0.77695	—	0.77695	—	12,197.8	12,197.8	1.07950	0.02297	—	12,231.7
Strip Mall	0.02682	0.01341	0.24379	0.20479	0.00146	0.01853	—	0.01853	0.01853	—	0.01853	—	290.884	290.884	0.02574	0.00055	—	291.691
Total	1.29754	0.64877	11.7161	9.32376	0.07078	0.89648	—	0.89648	0.89648	—	0.89648	—	14,074.4	14,074.4	1.24558	0.02650	—	14,113.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.14619	0.07309	1.24925	0.53160	0.00797	0.10100	—	0.10100	0.10100	—	0.10100	—	1,585.71	1,585.71	0.14033	0.00299	—	1,590.10
General Office Building	1.12454	0.56227	10.2231	8.58738	0.06134	0.77695	—	0.77695	0.77695	—	0.77695	—	12,197.8	12,197.8	1.07950	0.02297	—	12,231.7
Strip Mall	0.02682	0.01341	0.24379	0.20479	0.00146	0.01853	—	0.01853	0.01853	—	0.01853	—	290.884	290.884	0.02574	0.00055	—	291.691
Total	1.29754	0.64877	11.7161	9.32376	0.07078	0.89648	—	0.89648	0.89648	—	0.89648	—	14,074.4	14,074.4	1.24558	0.02650	—	14,113.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.02668	0.01334	0.22799	0.09702	0.00146	0.01843	—	0.01843	0.01843	—	0.01843	—	262.532	262.532	0.02323	0.00049	—	263.260
General Office Building	0.20523	0.10261	1.86571	1.56720	0.01119	0.14179	—	0.14179	0.14179	—	0.14179	—	2,019.49	2,019.49	0.17872	0.00380	—	2,025.09
Strip Mall	0.00489	0.00245	0.04449	0.03737	0.00027	0.00338	—	0.00338	0.00338	—	0.00338	—	48.1592	48.1592	0.00426	0.00009	—	48.2928
Total	0.23680	0.11840	2.13819	1.70159	0.01292	0.16361	—	0.16361	0.16361	—	0.16361	—	2,330.18	2,330.18	0.20622	0.00439	—	2,336.64

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	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	44.8847	44.8847	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.97502	2.97502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	14.4526	13.4251	0.87778	100.669	0.00535	0.12577	—	0.12577	0.09508	—	0.09508	—	356.106	356.106	0.01492	0.00303	—	357.381
Total	62.3123	61.2848	0.87778	100.669	0.00535	0.12577	—	0.12577	0.09508	—	0.09508	0.00000	356.106	356.106	0.01492	0.00303	—	357.381
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	—	0.00000
Consumer Products	44.8847	44.8847	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.97502	2.97502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	47.8597	47.8597	0.00000	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	—	0.00000
Consumer Products	8.19145	8.19145	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.54294	0.54294	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.30074	1.20826	0.07900	9.06025	0.00048	0.01132	—	0.01132	0.00856	—	0.00856	—	29.0749	29.0749	0.00122	0.00025	—	29.1790
Total	10.0351	9.94265	0.07900	9.06025	0.00048	0.01132	—	0.01132	0.00856	—	0.00856	0.00000	29.0749	29.0749	0.00122	0.00025	—	29.1790

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	47.0590	77.6953	124.754	4.84047	0.11648	—	280.477
General Office Building	—	—	—	—	—	—	—	—	—	—	—	404.791	668.318	1,073.11	41.6367	1.00194	—	2,412.61
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	29.7707	49.1521	78.9228	3.06221	0.07369	—	177.437
Total	—	—	—	—	—	—	—	—	—	—	—	481.621	795.165	1,276.79	49.5394	1.19211	—	2,870.52
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	47.0590	77.6953	124.754	4.84047	0.11648	—	280.477
General Office Building	—	—	—	—	—	—	—	—	—	—	—	404.791	668.318	1,073.11	41.6367	1.00194	—	2,412.61

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	29.7707	49.1521	78.9228	3.06221	0.07369	—	177.437
Total	—	—	—	—	—	—	—	—	—	—	—	481.621	795.165	1,276.79	49.5394	1.19211	—	2,870.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	7.79115	12.8633	20.6545	0.80140	0.01928	—	46.4362
General Office Building	—	—	—	—	—	—	—	—	—	—	—	67.0178	110.648	177.665	6.89343	0.16588	—	399.434
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.92888	8.13768	13.0666	0.50698	0.01220	—	29.3768
Total	—	—	—	—	—	—	—	—	—	—	—	79.7378	131.649	211.386	8.20181	0.19737	—	475.247

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	278.541	0.00000	278.541	27.8392	0.00000	—	974.520
General Office Building	—	—	—	—	—	—	—	—	—	—	—	595.709	0.00000	595.709	59.5390	0.00000	—	2,084.18
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	118.689	0.00000	118.689	11.8626	0.00000	—	415.254
Total	—	—	—	—	—	—	—	—	—	—	—	992.940	0.00000	992.940	99.2407	0.00000	—	3,473.96

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	278.541	0.00000	278.541	27.8392	0.00000	—	974.520
General Office Building	—	—	—	—	—	—	—	—	—	—	—	595.709	0.00000	595.709	59.5390	0.00000	—	2,084.18
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	118.689	0.00000	118.689	11.8626	0.00000	—	415.254
Total	—	—	—	—	—	—	—	—	—	—	—	992.940	0.00000	992.940	99.2407	0.00000	—	3,473.96
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	46.1156	0.00000	46.1156	4.60909	0.00000	—	161.343
General Office Building	—	—	—	—	—	—	—	—	—	—	—	98.6265	0.00000	98.6265	9.85736	0.00000	—	345.061
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	19.6504	0.00000	19.6504	1.96399	0.00000	—	68.7500
Total	—	—	—	—	—	—	—	—	—	—	—	164.392	0.00000	164.392	16.4304	0.00000	—	575.153

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.00723	5.00723

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.89052	2.89052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.30632	1.30632
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.20406	9.20406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.00723	5.00723
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.89052	2.89052
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.30632	1.30632
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.20406	9.20406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.82900	0.82900
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.47856	0.47856
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21628	0.21628
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.52384	1.52384

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	1/29/2027	5.00000	20.0000	—
Site Preparation	Site Preparation	1/30/2027	2/13/2027	5.00000	10.00000	—
Grading	Grading	2/14/2027	3/28/2027	5.00000	30.0000	—

Building Construction	Building Construction	3/29/2027	5/22/2028	5.00000	300.000	—
Paving	Paving	5/23/2028	6/20/2028	5.00000	20.0000	—
Architectural Coating	Architectural Coating	1/18/2028	5/22/2028	5.00000	90.0000	—

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	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000

Architectural Coating	Air Compressors	Diesel	Average	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	15.0000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	230.000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	11.9700	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	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	950.728	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	303.901	7.63000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	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	190.146	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	1,415,754	471,918	2,097,414	699,138	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	400,000	0.00000
Site Preparation	—	—	15.0000	0.00000	0.00000
Grading	—	—	90.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt

Paving	Apartments Mid Rise	—	0%
Paving	General Office Building	0.00000	0%
Paving	Strip Mall	0.00000	0%

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
2028	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 Mid Rise	4,194.00	4,194.00	4,194.00	1,530,810	11,323.8	11,323.8	11,323.8	4,133,187
General Office Building	59,426.8	59,426.8	59,426.8	21,690,764	160,452	160,452	160,452	58,565,062
Strip Mall	31,461.2	31,461.2	31,461.2	11,483,320	84,945.1	84,945.1	84,945.1	31,004,963

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0

Apartments Mid Rise	No Fireplaces	699	699
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0
General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	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)
1,415,754	471,918	2,097,414	699,138	—

5.10.3. Landscape Equipment

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)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,370,218	169.636	0.0330	0.0040	4,947,827
General Office Building	19,723,223	169.636	0.0330	0.0040	38,060,487
Strip Mall	1,848,774	169.636	0.0330	0.0040	907,637

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	24,558,019	0.00000
General Office Building	211,242,780	0.00000
Strip Mall	15,536,045	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	516.832	0.00000

General Office Building	1,105.34	0.00000
Strip Mall	220.228	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid 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 Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
General Office Building	Household refrigerators and/or freezers	R-134a	1,430.00	0.01679	0.60000	0.00000	1.000000
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.46000	annual days of extreme heat
Extreme Precipitation	2.35000	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	1.26000	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	32.1469
AQ-PM	49.9440
AQ-DPM	53.6403
Drinking Water	28.9871
Lead Risk Housing	40.1008
Pesticides	0.00000
Toxic Releases	41.1103
Traffic	70.8375
Effect Indicators	—

CleanUp Sites	80.0859
Groundwater	97.0613
Haz Waste Facilities/Generators	77.8028
Impaired Water Bodies	33.1583
Solid Waste	0.00000
Sensitive Population	—
Asthma	19.1675
Cardio-vascular	5.95713
Low Birth Weights	43.5463
Socioeconomic Factor Indicators	—
Education	44.9380
Housing	99.8606
Linguistic	28.7996
Poverty	81.7588
Unemployment	98.9459

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	33.59425125
Employed	0.269472604
Median HI	38.75272681
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	46.22096753
Transportation	—

Auto Access	38.61157449
Active commuting	58.24457847
Social	—
2-parent households	79.00680098
Voting	3.233671243
Neighborhood	—
Alcohol availability	26.02335429
Park access	53.13743103
Retail density	92.21095855
Supermarket access	94.25125112
Tree canopy	6.659822918
Housing	—
Homeownership	0.153984345
Housing habitability	10.63775183
Low-inc homeowner severe housing cost burden	29.32118568
Low-inc renter severe housing cost burden	6.351854228
Uncrowded housing	84.29359682
Health Outcomes	—
Insured adults	87.48877197
Arthritis	99.1
Asthma ER Admissions	95.3
High Blood Pressure	99.2
Cancer (excluding skin)	99.1
Asthma	43.1
Coronary Heart Disease	99.4
Chronic Obstructive Pulmonary Disease	97.7
Diagnosed Diabetes	98.9
Life Expectancy at Birth	60.7

Cognitively Disabled	56.3
Physically Disabled	85.5
Heart Attack ER Admissions	94.1
Mental Health Not Good	39.0
Chronic Kidney Disease	98.6
Obesity	48.4
Pedestrian Injuries	82.1
Physical Health Not Good	92.3
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	0.9
Current Smoker	26.1
No Leisure Time for Physical Activity	70.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.0
Elderly	99.1
English Speaking	59.8
Foreign-born	15.2
Outdoor Workers	23.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	15.8
Traffic Density	70.4
Traffic Access	53.4
Other Indices	—
Hardship	39.7
Other Decision Support	—

2016 Voting	15.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	53.0000
Healthy Places Index Score for Project Location (b)	15.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	16.05 total acres Existing CO-3-1 zoning allows: 699 multi-family dwelling units (699,138 sf) 1,188,535 sf office 209,741 sf retail
Construction: Construction Phases	Architectural coatings simultaneous with last 30% of building construction

Operations: Vehicle Data	Residential - 6 trips/du Office (medical) - 50 trips/ksf Retail (supermarket) - 150 trips/ksf Trip length - 2.7 miles based on Midway - Pacific Highway EIR
Operations: Hearths	No fireplaces or wood stoves

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	18.3947	5.85000
Building Area	sq. ft	671,040	699,138
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	27.2850	8.68000
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	4.81499	1.53000
Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Architectural Coating	Architectural Coating	Start Date	6/21/2028	1/18/2028
Architectural Coating	Architectural Coating	End Date	7/19/2028	5/22/2028
Architectural Coating	Architectural Coating	Work Days per Phase	20.0000	90.0000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value

Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	6.00000
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	6.00000
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	6.00000
Apartments Mid Rise	Res H-W Trip Length	miles	5.68279	2.70000
Apartments Mid Rise	Res H-S Trip Length	miles	4.55331	2.70000
Apartments Mid Rise	Res H-O Trip Length	miles	4.60818	2.70000
General Office Building	Weekday Trip Rate	size/day	9.74000	50.0000
General Office Building	Saturday Trip Rate	size/day	2.21000	50.0000
General Office Building	Sunday Trip Rate	size/day	0.70000	50.0000
General Office Building	Non-Res H-W Trip Length	miles	10.0149	2.70000
General Office Building	Non-Res W-O Trip Length	miles	5.83056	2.70000
General Office Building	Non-Res O-O Trip Length	miles	6.39050	2.70000
Strip Mall	Weekday Trip Rate	size/day	44.3200	150.000
Strip Mall	Saturday Trip Rate	size/day	42.0400	150.000
Strip Mall	Sunday Trip Rate	size/day	20.4300	150.000
Strip Mall	Non-Res H-W Trip Length	miles	10.0149	2.70000
Strip Mall	Non-Res W-O Trip Length	miles	5.83056	2.70000
Strip Mall	Non-Res O-O Trip Length	miles	6.39050	2.70000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Wood Fireplaces	—	245	0
Apartments Mid Rise	Gas Fireplaces	—	384	0
Apartments Mid Rise	No Fireplaces	—	70	699
Apartments Mid Rise	Hours/Day	—	3	0
Apartments Mid Rise	Days/Year	—	82	0

Apartments Mid Rise	Wood Mass	lb/year	3,078	0
Apartments Mid Rise	Catalytic Wood Stoves	—	35	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	—	35	0
Apartments Mid Rise	Days/Year	—	82	0
Apartments Mid Rise	Wood Mass	lb/year	3,019	0

ATTACHMENT 2

CalEEMod Output
Proposed RM-3-9 Zoning

Post Point - Proposed RM-3-9 Zoning Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Post Point - Proposed RM-3-9 Zoning
Construction Start Date	1/1/2027
Operational Year	2035
Lead Agency	City of San Diego
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.70000
Precipitation (days)	20.0000
Location	32.74544455306918, -117.20140878908921
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6410
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.37

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 Mid Rise	1,165.00	Dwelling Unit	14.0600	1,188,535	0.00000	—	3,250.00	—

Strip Mall	188.767	1000sqft	1.99000	188,767	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	98.0145	97.2933	16.8459	58.0165	0.05128	0.38888	10.1208	10.4887	0.36195	2.41399	2.75664	—	15,859.7	15,859.7	0.61562	0.90099	36.3941	16,174.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	97.9770	97.2388	40.7110	52.8632	0.13901	1.17173	24.3843	25.4845	1.07799	4.22475	5.15984	—	19,357.7	19,357.7	0.95218	2.53290	0.94222	20,137.1
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.3549	24.1418	14.3497	30.6669	0.04092	0.38968	6.47614	6.86582	0.35656	1.56470	1.92126	—	9,364.30	9,364.30	0.42854	0.60206	8.99623	9,563.42
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.44476	4.40588	2.61882	5.59671	0.00747	0.07112	1.18190	1.25301	0.06507	0.28556	0.35063	—	1,550.37	1,550.37	0.07095	0.09968	1.48943	1,583.33
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	55.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	55.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.97508	4.33169	16.3244	52.0197	0.04955	0.38888	8.59989	8.98877	0.36195	2.05748	2.41943	—	14,351.8	14,351.8	0.61562	0.84055	34.9775	14,652.7
2028	98.0145	97.2933	16.8459	58.0165	0.05128	0.36790	10.1208	10.4887	0.34265	2.41399	2.75664	—	15,859.7	15,859.7	0.40808	0.90099	36.3941	16,174.8
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.90532	4.24211	40.7110	47.5712	0.13901	1.17173	24.3843	25.4845	1.07799	4.22475	5.15984	—	19,357.7	19,357.7	0.95218	2.53290	0.90538	20,137.1
2028	97.9770	97.2388	17.3990	52.8632	0.05128	0.36790	10.1208	10.4887	0.34265	2.41399	2.75664	—	15,324.8	15,324.8	0.43187	0.90099	0.94222	15,605.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.26723	2.77521	14.3497	30.6669	0.04092	0.38968	6.47614	6.86582	0.35656	1.56470	1.92126	—	9,364.30	9,364.30	0.42854	0.60206	8.99623	9,563.42
2028	24.3549	24.1418	5.17373	15.2521	0.01506	0.11645	2.75335	2.86980	0.10830	0.65649	0.76480	—	4,345.18	4,345.18	0.12312	0.25107	4.33754	4,427.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.59627	0.50648	2.61882	5.59671	0.00747	0.07112	1.18190	1.25301	0.06507	0.28556	0.35063	—	1,550.37	1,550.37	0.07095	0.09968	1.48943	1,583.33
2028	4.44476	4.40588	0.94421	2.78351	0.00275	0.02125	0.50249	0.52374	0.01977	0.11981	0.13958	—	719.394	719.394	0.02038	0.04157	0.71813	733.009

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	126.805	122.465	34.6279	410.745	0.71462	0.65443	67.2791	67.9335	0.61526	17.0596	17.6749	676.280	76,866.8	77,543.1	73.4590	4.07393	85.2447	80,678.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	118.759	114.655	37.2496	346.603	0.68189	0.61067	67.2791	67.8897	0.58226	17.0596	17.6419	676.280	73,685.0	74,361.3	73.9596	4.32475	11.6471	77,510.7
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	120.981	116.721	36.8101	376.064	0.68788	0.63221	66.4140	67.0462	0.59850	16.8434	17.4419	676.280	74,227.4	74,903.7	73.8181	4.26383	42.3128	78,062.0
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.0790	21.3015	6.71784	68.6317	0.12554	0.11538	12.1206	12.2359	0.10923	3.07392	3.18314	111.966	12,289.2	12,401.2	12.2214	0.70593	7.00537	12,924.1
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	54.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137.000	250.000	550.000	250.000	—	—	100.0000	—	—	54.0000	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

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

Mobile	87.2864	83.5146	31.6472	335.040	0.69666	0.42524	67.2791	67.7043	0.39685	17.0596	17.4565	—	70,968.7	70,968.7	4.78715	3.74472	75.5567	72,279.8
Area	39.2508	38.8167	0.67921	74.6344	0.00336	0.04417	—	0.04417	0.03340	—	0.03340	0.00000	210.476	210.476	0.00880	0.00176	—	211.219
Energy	0.26778	0.13389	2.30150	1.07030	0.01461	0.18501	—	0.18501	0.18501	—	0.18501	—	5,513.90	5,513.90	0.76465	0.06700	—	5,552.98
Water	—	—	—	—	—	—	—	—	—	—	—	105.225	173.729	278.954	10.8234	0.26046	—	627.156
Waste	—	—	—	—	—	—	—	—	—	—	—	571.055	0.00000	571.055	57.0749	0.00000	—	1,997.93
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.68798	9.68798
Total	126.805	122.465	34.6279	410.745	0.71462	0.65443	67.2791	67.9335	0.61526	17.0596	17.6749	676.280	76,866.8	77,543.1	73.4590	4.07393	85.2447	80,678.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	86.7391	82.7686	34.9481	345.533	0.66728	0.42566	67.2791	67.7047	0.39725	17.0596	17.4569	—	67,997.4	67,997.4	5.29663	3.99729	1.95916	69,323.0
Area	31.7521	31.7521	0.00000	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	0.26778	0.13389	2.30150	1.07030	0.01461	0.18501	—	0.18501	0.18501	—	0.18501	—	5,513.90	5,513.90	0.76465	0.06700	—	5,552.98
Water	—	—	—	—	—	—	—	—	—	—	—	105.225	173.729	278.954	10.8234	0.26046	—	627.156
Waste	—	—	—	—	—	—	—	—	—	—	—	571.055	0.00000	571.055	57.0749	0.00000	—	1,997.93
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.68798	9.68798
Total	118.759	114.655	37.2496	346.603	0.68189	0.61067	67.2791	67.8897	0.58226	17.0596	17.6419	676.280	73,685.0	74,361.3	73.9596	4.32475	11.6471	77,510.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	85.2631	81.3507	34.1736	338.188	0.67162	0.42541	66.4140	66.8394	0.39702	16.8434	17.2404	—	68,435.9	68,435.9	5.15080	3.93552	32.6248	69,770.1
Area	35.4501	35.2360	0.33495	36.8060	0.00166	0.02178	—	0.02178	0.01647	—	0.01647	0.00000	103.796	103.796	0.00434	0.00087	—	104.163
Energy	0.26778	0.13389	2.30150	1.07030	0.01461	0.18501	—	0.18501	0.18501	—	0.18501	—	5,513.90	5,513.90	0.76465	0.06700	—	5,552.98
Water	—	—	—	—	—	—	—	—	—	—	—	105.225	173.729	278.954	10.8234	0.26046	—	627.156
Waste	—	—	—	—	—	—	—	—	—	—	—	571.055	0.00000	571.055	57.0749	0.00000	—	1,997.93
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.68798	9.68798
Total	120.981	116.721	36.8101	376.064	0.68788	0.63221	66.4140	67.0462	0.59850	16.8434	17.4419	676.280	74,227.4	74,903.7	73.8181	4.26383	42.3128	78,062.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.5605	14.8465	6.23669	61.7193	0.12257	0.07764	12.1206	12.1982	0.07246	3.07392	3.14637	—	11,330.4	11,330.4	0.85277	0.65157	5.40141	11,551.2
Area	6.46964	6.43058	0.06113	6.71710	0.00030	0.00398	—	0.00398	0.00301	—	0.00301	0.00000	17.1847	17.1847	0.00072	0.00014	—	17.2454

Energy	0.04887	0.02444	0.42002	0.19533	0.00267	0.03377	—	0.03377	0.03377	—	0.03377	—	912.889	912.889	0.12660	0.01109	—	919.359
Water	—	—	—	—	—	—	—	—	—	—	—	17.4212	28.7628	46.1841	1.79194	0.04312	—	103.833
Waste	—	—	—	—	—	—	—	—	—	—	—	94.5447	0.00000	94.5447	9.44940	0.00000	—	330.780
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.60396	1.60396
Total	22.0790	21.3015	6.71784	68.6317	0.12554	0.11538	12.1206	12.2359	0.10923	3.07392	3.18314	111.966	12,289.2	12,401.2	12.2214	0.70593	7.00537	12,924.1

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63907	2.21478	19.9005	18.6307	0.03253	0.79594	—	0.79594	0.73226	—	0.73226	—	3,426.90	3,426.90	0.13901	0.02780	—	3,438.66
Demolition	—	—	—	—	—	—	19.9933	19.9933	—	3.02755	3.02755	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14461	0.12136	1.09044	1.02086	0.00178	0.04361	—	0.04361	0.04012	—	0.04012	—	187.775	187.775	0.00762	0.00152	—	188.420

Demolition	—	—	—	—	—	—	1.09552	1.09552	—	0.16589	0.16589	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02639	0.02215	0.19901	0.18631	0.00033	0.00796	—	0.00796	0.00732	—	0.00732	—	31.0883	31.0883	0.00126	0.00025	—	31.1950
Demolition	—	—	—	—	—	—	0.19993	0.19993	—	0.03028	0.03028	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05685	0.05157	0.04621	0.54000	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	129.450	129.450	0.00693	0.00528	0.01149	131.209
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	0.00000
Hauling	1.15610	0.33973	20.7642	7.88483	0.10648	0.30424	4.26420	4.56844	0.20283	1.16746	1.37029	—	15,801.4	15,801.4	0.80623	2.49982	0.81066	16,567.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00310	0.00281	0.00251	0.02995	0.00000	0.00000	0.00686	0.00686	0.00000	0.00161	0.00161	—	7.15662	7.15662	0.00036	0.00027	0.01051	7.25701
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	0.00000
Hauling	0.06418	0.01917	1.13804	0.42955	0.00583	0.01667	0.23137	0.24804	0.01111	0.06340	0.07451	—	865.620	865.620	0.04418	0.13670	0.73901	908.200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00057	0.00051	0.00046	0.00547	0.00000	0.00000	0.00125	0.00125	0.00000	0.00029	0.00029	—	1.18486	1.18486	0.00006	0.00004	0.00174	1.20148
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	0.00000
Hauling	0.01171	0.00350	0.20769	0.07839	0.00106	0.00304	0.04222	0.04527	0.00203	0.01157	0.01360	—	143.313	143.313	0.00731	0.02263	0.12235	150.363

3.3. Site Preparation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63178	3.05170	27.9724	28.2794	0.04891	1.17173	—	1.17173	1.07799	—	1.07799	—	5,297.82	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09950	0.08361	0.76637	0.77478	0.00134	0.03210	—	0.03210	0.02953	—	0.02953	—	145.146	145.146	0.00589	0.00118	—	145.644
Dust From Material Movement	—	—	—	—	—	—	0.21003	0.21003	—	0.10794	0.10794	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01816	0.01526	0.13986	0.14140	0.00024	0.00586	—	0.00586	0.00539	—	0.00539	—	24.0305	24.0305	0.00097	0.00019	—	24.1130
Dust From Material Movement	—	—	—	—	—	—	0.03833	0.03833	—	0.01970	0.01970	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06632	0.06016	0.05391	0.63000	0.00000	0.00000	0.14800	0.14800	0.00000	0.03469	0.03469	—	151.025	151.025	0.00809	0.00616	0.01341	153.077
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00181	0.00164	0.00147	0.01747	0.00000	0.00000	0.00400	0.00400	0.00000	0.00094	0.00094	—	4.17469	4.17469	0.00021	0.00016	0.00613	4.23326
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00033	0.00030	0.00027	0.00319	0.00000	0.00000	0.00073	0.00073	0.00000	0.00017	0.00017	—	0.69117	0.69117	0.00003	0.00003	0.00102	0.70086
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	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	0.00000

3.5. Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	—	—	3.58940	3.58940	—	1.42496	1.42496	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28811	0.24209	2.10247	2.24233	0.00501	0.08573	—	0.08573	0.07887	—	0.07887	—	542.308	542.308	0.02200	0.00440	—	544.169
Dust From Material Movement	—	—	—	—	—	—	0.29502	0.29502	—	0.11712	0.11712	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05258	0.04418	0.38370	0.40922	0.00091	0.01565	—	0.01565	0.01439	—	0.01439	—	89.7852	89.7852	0.00364	0.00073	—	90.0934

Dust From Material Movement	—	—	—	—	—	—	0.05384	0.05384	—	0.02137	0.02137	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07580	0.06876	0.06161	0.72000	0.00000	0.00000	0.16915	0.16915	0.00000	0.03965	0.03965	—	172.600	172.600	0.00925	0.00704	0.01532	174.945
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00619	0.00562	0.00503	0.05990	0.00000	0.00000	0.01372	0.01372	0.00000	0.00321	0.00321	—	14.3132	14.3132	0.00072	0.00054	0.02103	14.5140
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00113	0.00102	0.00092	0.01093	0.00000	0.00000	0.00250	0.00250	0.00000	0.00059	0.00059	—	2.36972	2.36972	0.00012	0.00009	0.00348	2.40296
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	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	0.00000

3.7. Building Construction (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23076	1.02988	9.39093	12.9379	0.02340	0.33657	—	0.33657	0.30965	—	0.30965	—	2,397.08	2,397.08	0.09724	0.01945	—	2,405.30
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66957	0.56029	5.10896	7.03865	0.01273	0.18311	—	0.18311	0.16846	—	0.16846	—	1,304.09	1,304.09	0.05290	0.01058	—	1,308.56
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12220	0.10225	0.93239	1.28455	0.00232	0.03342	—	0.03342	0.03074	—	0.03074	—	215.906	215.906	0.00876	0.00175	—	216.647
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.46743	3.17066	2.21613	36.8556	0.00000	0.00000	7.60481	7.60481	0.00000	1.78255	1.78255	—	8,216.72	8,216.72	0.37606	0.29677	26.6375	8,341.19
Vendor	0.27689	0.13114	4.71729	2.22615	0.02615	0.05231	0.99508	1.04739	0.05231	0.27492	0.32723	—	3,738.05	3,738.05	0.14232	0.52433	8.34002	3,906.20
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.40796	3.09137	2.77002	32.3715	0.00000	0.00000	7.60481	7.60481	0.00000	1.78255	1.78255	—	7,760.15	7,760.15	0.41571	0.31659	0.68884	7,865.58
Vendor	0.26661	0.12086	4.88703	2.26169	0.02615	0.05231	0.99508	1.04739	0.05231	0.27492	0.32723	—	3,740.55	3,740.55	0.14575	0.52433	0.21654	3,900.67
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.84325	1.67102	1.49619	17.8255	0.00000	0.00000	4.08412	4.08412	0.00000	0.95648	0.95648	—	4,259.53	4,259.53	0.21537	0.16145	6.25816	4,319.29
Vendor	0.14691	0.06762	2.63818	1.22788	0.01423	0.02846	0.53550	0.56395	0.02846	0.14810	0.17656	—	2,034.19	2,034.19	0.07929	0.28525	1.96139	2,123.14
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33639	0.30496	0.27306	3.25316	0.00000	0.00000	0.74535	0.74535	0.00000	0.17456	0.17456	—	705.215	705.215	0.03566	0.02673	1.03611	715.108
Vendor	0.02681	0.01234	0.48147	0.22409	0.00260	0.00519	0.09773	0.10292	0.00519	0.02703	0.03222	—	336.783	336.783	0.01313	0.04723	0.32473	351.509
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	0.00000

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68

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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18481	0.99143	8.92495	12.9352	0.02340	0.30024	—	0.30024	0.27622	—	0.27622	—	2,397.46	2,397.46	0.09725	0.01945	—	2,405.68
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33156	0.27745	2.49759	3.61984	0.00655	0.08402	—	0.08402	0.07730	—	0.07730	—	670.913	670.913	0.02722	0.00544	—	673.215
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06051	0.05063	0.45581	0.66062	0.00120	0.01533	—	0.01533	0.01411	—	0.01411	—	111.077	111.077	0.00451	0.00090	—	111.458
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.36831	3.07154	2.19631	34.8575	0.00000	0.00000	7.60481	7.60481	0.00000	1.78255	1.78255	—	8,070.48	8,070.48	0.13877	0.29677	24.1264	8,186.51
Vendor	0.27689	0.12772	4.47721	2.13398	0.02615	0.05231	0.99508	1.04739	0.05231	0.27492	0.32723	—	3,644.14	3,644.14	0.13889	0.52433	7.44244	3,811.31
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.34849	3.03190	2.51290	30.5116	0.00000	0.00000	7.60481	7.60481	0.00000	1.78255	1.78255	—	7,622.49	7,622.49	0.15859	0.29677	0.62437	7,715.52
Vendor	0.26318	0.12086	4.65038	2.19568	0.02615	0.05231	0.99508	1.04739	0.05231	0.27492	0.32723	—	3,646.80	3,646.80	0.13889	0.52433	0.19298	3,806.72
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92596	0.83736	0.69767	8.65432	0.00000	0.00000	2.10082	2.10082	0.00000	0.49200	0.49200	—	2,152.15	2,152.15	0.04438	0.08305	2.91526	2,180.92
Vendor	0.07557	0.03382	1.29083	0.60581	0.00732	0.01464	0.27545	0.29009	0.01464	0.07618	0.09082	—	1,020.11	1,020.11	0.03887	0.14673	0.89902	1,065.70
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16899	0.15282	0.12733	1.57941	0.00000	0.00000	0.38340	0.38340	0.00000	0.08979	0.08979	—	356.313	356.313	0.00735	0.01375	0.48265	361.077
Vendor	0.01379	0.00617	0.23558	0.11056	0.00134	0.00267	0.05027	0.05294	0.00267	0.01390	0.01657	—	168.890	168.890	0.00643	0.02429	0.14884	176.439
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	0.00000

3.11. Paving (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81550	0.68524	6.62754	9.90989	0.01395	0.25554	—	0.25554	0.23510	—	0.23510	—	1,511.03	1,511.03	0.06129	0.01226	—	1,516.22
Paving	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.04468	0.03755	0.36315	0.54301	0.00076	0.01400	—	0.01400	0.01288	—	0.01288	—	82.7962	82.7962	0.00336	0.00067	—	83.0803
Paving	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.00815	0.00685	0.06628	0.09910	0.00014	0.00256	—	0.00256	0.00235	—	0.00235	—	13.7079	13.7079	0.00056	0.00011	—	13.7549
Paving	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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05619	0.05124	0.03664	0.58147	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	134.627	134.627	0.00231	0.00495	0.40246	136.562
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	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00302	0.00274	0.00228	0.02827	0.00000	0.00000	0.00686	0.00686	0.00000	0.00161	0.00161	—	7.02954	7.02954	0.00014	0.00027	0.00952	7.12352
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00055	0.00050	0.00042	0.00516	0.00000	0.00000	0.00125	0.00125	0.00000	0.00029	0.00029	—	1.16382	1.16382	0.00002	0.00004	0.00158	1.17938
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	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	0.00000

3.13. Architectural Coating (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	92.3810	92.3810	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12985	0.10731	0.80814	1.11833	0.00173	0.01536	—	0.01536	0.01413	—	0.01413	—	133.517	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	92.3810	92.3810	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03202	0.02646	0.19927	0.27575	0.00043	0.00379	—	0.00379	0.00348	—	0.00348	—	32.9220	32.9220	0.00134	0.00027	—	33.0350

Architect Coatings	22.7789	22.7789	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00584	0.00483	0.03637	0.05032	0.00008	0.00069	—	0.00069	0.00064	—	0.00064	—	5.45061	5.45061	0.00022	0.00004	—	5.46932
Architectural Coatings	4.15714	4.15714	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00000
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67366	0.61431	0.43926	6.97150	0.00000	0.00000	1.52096	1.52096	0.00000	0.35651	0.35651	—	1,614.10	1,614.10	0.02775	0.05935	4.82529	1,637.30
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	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	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.66970	0.60638	0.50258	6.10233	0.00000	0.00000	1.52096	1.52096	0.00000	0.35651	0.35651	—	1,524.50	1,524.50	0.03172	0.05935	0.12487	1,543.10
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	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	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16318	0.14756	0.12295	1.52510	0.00000	0.00000	0.37021	0.37021	0.00000	0.08670	0.08670	—	379.260	379.260	0.00782	0.01464	0.51374	384.331
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	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	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02978	0.02693	0.02244	0.27833	0.00000	0.00000	0.06756	0.06756	0.00000	0.01582	0.01582	—	62.7908	62.7908	0.00129	0.00242	0.08506	63.6303
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	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	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	17.2817	16.5349	6.26578	66.3342	0.13793	0.08419	13.3205	13.4047	0.07857	3.37761	3.45619	—	14,051.0	14,051.0	0.94780	0.74141	14.9594	14,310.6
Strip Mall	70.0047	66.9796	25.3814	268.706	0.55873	0.34105	53.9586	54.2996	0.31828	13.6820	14.0003	—	56,917.7	56,917.7	3.83935	3.00331	60.5973	57,969.2
Total	87.2864	83.5146	31.6472	335.040	0.69666	0.42524	67.2791	67.7043	0.39685	17.0596	17.4565	—	70,968.7	70,968.7	4.78715	3.74472	75.5567	72,279.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	17.1734	16.3872	6.91933	68.4116	0.13211	0.08428	13.3205	13.4048	0.07865	3.37761	3.45626	—	13,462.7	13,462.7	1.04867	0.79142	0.38789	13,725.2
Strip Mall	69.5657	66.3813	28.0288	277.121	0.53517	0.34138	53.9586	54.2999	0.31860	13.6820	14.0006	—	54,534.7	54,534.7	4.24796	3.20588	1.57127	55,597.8
Total	86.7391	82.7686	34.9481	345.533	0.66728	0.42566	67.2791	67.7047	0.39725	17.0596	17.4569	—	67,997.4	67,997.4	5.29663	3.99729	1.95916	69,323.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	3.08081	2.93944	1.23479	12.2197	0.02427	0.01537	2.39973	2.41511	0.01435	0.60860	0.62295	—	2,243.28	2,243.28	0.16884	0.12900	1.06942	2,287.01
Strip Mall	12.4797	11.9071	5.00189	49.4996	0.09830	0.06227	9.72083	9.78309	0.05811	2.46532	2.52343	—	9,087.07	9,087.07	0.68393	0.52257	4.33200	9,264.23
Total	15.5605	14.8465	6.23669	61.7193	0.12257	0.07764	12.1206	12.1982	0.07246	3.07392	3.14637	—	11,330.4	11,330.4	0.85277	0.65157	5.40141	11,551.2

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,835.95	1,835.95	0.35716	0.04329	—	1,857.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	773.306	773.306	0.15043	0.01823	—	782.501
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,609.26	2,609.26	0.50759	0.06153	—	2,640.28
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,835.95	1,835.95	0.35716	0.04329	—	1,857.78
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	773.306	773.306	0.15043	0.01823	—	782.501
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,609.26	2,609.26	0.50759	0.06153	—	2,640.28
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	303.963	303.963	0.05913	0.00717	—	307.577
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	128.030	128.030	0.02491	0.00302	—	129.552
Total	—	—	—	—	—	—	—	—	—	—	—	—	431.993	431.993	0.08404	0.01019	—	437.129

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.24365	0.12182	2.08208	0.88599	0.01329	0.16834	—	0.16834	0.16834	—	0.16834	—	2,642.84	2,642.84	0.23389	0.00498	—	2,650.17
Strip Mall	0.02414	0.01207	0.21941	0.18431	0.00132	0.01668	—	0.01668	0.01668	—	0.01668	—	261.796	261.796	0.02317	0.00049	—	262.522
Total	0.26778	0.13389	2.30150	1.07030	0.01461	0.18501	—	0.18501	0.18501	—	0.18501	—	2,904.64	2,904.64	0.25706	0.00547	—	2,912.70
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.24365	0.12182	2.08208	0.88599	0.01329	0.16834	—	0.16834	0.16834	—	0.16834	—	2,642.84	2,642.84	0.23389	0.00498	—	2,650.17
Strip Mall	0.02414	0.01207	0.21941	0.18431	0.00132	0.01668	—	0.01668	0.01668	—	0.01668	—	261.796	261.796	0.02317	0.00049	—	262.522
Total	0.26778	0.13389	2.30150	1.07030	0.01461	0.18501	—	0.18501	0.18501	—	0.18501	—	2,904.64	2,904.64	0.25706	0.00547	—	2,912.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.04447	0.02223	0.37998	0.16169	0.00243	0.03072	—	0.03072	0.03072	—	0.03072	—	437.553	437.553	0.03872	0.00082	—	438.766

Strip Mall	0.00440	0.00220	0.04004	0.03364	0.00024	0.00304	—	0.00304	0.00304	—	0.00304	—	43.3433	43.3433	0.00384	0.00008	—	43.4635
Total	0.04887	0.02444	0.42002	0.19533	0.00267	0.03377	—	0.03377	0.03377	—	0.03377	—	480.896	480.896	0.04256	0.00091	—	482.230

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	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	29.4743	29.4743	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.27789	2.27789	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.49863	7.06456	0.67921	74.6344	0.00336	0.04417	—	0.04417	0.03340	—	0.03340	—	210.476	210.476	0.00880	0.00176	—	211.219
Total	39.2508	38.8167	0.67921	74.6344	0.00336	0.04417	—	0.04417	0.03340	—	0.03340	0.00000	210.476	210.476	0.00880	0.00176	—	211.219
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	—	0.00000
Consumer Products	29.4743	29.4743	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	2.27789	2.27789	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	31.7521	31.7521	0.00000	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	—	0.00000
Consumer Products	5.37905	5.37905	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41571	0.41571	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67488	0.63581	0.06113	6.71710	0.00030	0.00398	—	0.00398	0.00301	—	0.00301	—	17.1847	17.1847	0.00072	0.00014	—	17.2454
Total	6.46964	6.43058	0.06113	6.71710	0.00030	0.00398	—	0.00398	0.00301	—	0.00301	0.00000	17.1847	17.1847	0.00072	0.00014	—	17.2454

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	78.4316	129.492	207.924	8.06745	0.19413	—	467.462
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	26.7937	44.2369	71.0305	2.75599	0.06632	—	159.694
Total	—	—	—	—	—	—	—	—	—	—	—	105.225	173.729	278.954	10.8234	0.26046	—	627.156

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	78.4316	129.492	207.924	8.06745	0.19413	—	467.462
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	26.7937	44.2369	71.0305	2.75599	0.06632	—	159.694
Total	—	—	—	—	—	—	—	—	—	—	—	105.225	173.729	278.954	10.8234	0.26046	—	627.156
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	12.9852	21.4389	34.4241	1.33566	0.03214	—	77.3937
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.43600	7.32392	11.7599	0.45629	0.01098	—	26.4391
Total	—	—	—	—	—	—	—	—	—	—	—	17.4212	28.7628	46.1841	1.79194	0.04312	—	103.833

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	464.235	0.00000	464.235	46.3986	0.00000	—	1,624.20
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	106.821	0.00000	106.821	10.6763	0.00000	—	373.729
Total	—	—	—	—	—	—	—	—	—	—	—	571.055	0.00000	571.055	57.0749	0.00000	—	1,997.93

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	464.235	0.00000	464.235	46.3986	0.00000	—	1,624.20
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	106.821	0.00000	106.821	10.6763	0.00000	—	373.729
Total	—	—	—	—	—	—	—	—	—	—	—	571.055	0.00000	571.055	57.0749	0.00000	—	1,997.93
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	76.8593	0.00000	76.8593	7.68182	0.00000	—	268.905
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	17.6854	0.00000	17.6854	1.76759	0.00000	—	61.8751
Total	—	—	—	—	—	—	—	—	—	—	—	94.5447	0.00000	94.5447	9.44940	0.00000	—	330.780

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.51229	8.51229
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.17568	1.17568
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.68798	9.68798

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.51229	8.51229
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.17568	1.17568
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.68798	9.68798
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.40931	1.40931
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19465	0.19465
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.60396	1.60396

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	1/29/2027	5.00000	20.0000	—
Site Preparation	Site Preparation	1/30/2027	2/13/2027	5.00000	10.00000	—
Grading	Grading	2/14/2027	3/28/2027	5.00000	30.0000	—
Building Construction	Building Construction	3/29/2027	5/22/2028	5.00000	300.000	—
Paving	Paving	5/23/2028	6/20/2028	5.00000	20.0000	—
Architectural Coating	Architectural Coating	1/18/2028	5/22/2028	5.00000	90.0000	—

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	Average	1.000000	8.00000	33.0000	0.73000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000

Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	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	15.0000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	230.000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	11.9700	LDA,LDT1,LDT2

Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	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	899.205	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	155.477	7.63000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	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	179.841	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	2,406,783	802,261	283,151	94,383.5	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	400,000	0.00000
Site Preparation	—	—	15.0000	0.00000	0.00000
Grading	—	—	90.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Apartments Mid Rise	—	0%
Paving	Strip Mall	0.00000	0%

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
2028	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 Mid Rise	6,990.00	6,990.00	6,990.00	2,551,350	18,873.0	18,873.0	18,873.0	6,888,645
Strip Mall	28,315.1	28,315.1	28,315.1	10,334,993	76,450.6	76,450.6	76,450.6	27,904,482

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	0	0
Apartments Mid Rise	Gas Fireplaces	0	0
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	1,165	1,165
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	0	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	0	0
Apartments Mid Rise	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	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)
2,406,783	802,261	283,151	94,383.5	—

5.10.3. Landscape Equipment

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)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	3,950,363	169.636	0.0330	0.0040	8,246,378
Strip Mall	1,663,898	169.636	0.0330	0.0040	816,873

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	40,930,032	0.00000
Strip Mall	13,982,448	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	861.387	0.00000
Strip Mall	198.205	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid 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 Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.46000	annual days of extreme heat
Extreme Precipitation	2.35000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	1.26000	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	32.1469
AQ-PM	49.9440
AQ-DPM	53.6403
Drinking Water	28.9871
Lead Risk Housing	40.1008
Pesticides	0.00000
Toxic Releases	41.1103
Traffic	70.8375
Effect Indicators	—
CleanUp Sites	80.0859
Groundwater	97.0613

Haz Waste Facilities/Generators	77.8028
Impaired Water Bodies	33.1583
Solid Waste	0.00000
Sensitive Population	—
Asthma	19.1675
Cardio-vascular	5.95713
Low Birth Weights	43.5463
Socioeconomic Factor Indicators	—
Education	44.9380
Housing	99.8606
Linguistic	28.7996
Poverty	81.7588
Unemployment	98.9459

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	33.59425125
Employed	0.269472604
Median HI	38.75272681
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	46.22096753
Transportation	—
Auto Access	38.61157449
Active commuting	58.24457847

Social	—
2-parent households	79.00680098
Voting	3.233671243
Neighborhood	—
Alcohol availability	26.02335429
Park access	53.13743103
Retail density	92.21095855
Supermarket access	94.25125112
Tree canopy	6.659822918
Housing	—
Homeownership	0.153984345
Housing habitability	10.63775183
Low-inc homeowner severe housing cost burden	29.32118568
Low-inc renter severe housing cost burden	6.351854228
Uncrowded housing	84.29359682
Health Outcomes	—
Insured adults	87.48877197
Arthritis	99.1
Asthma ER Admissions	95.3
High Blood Pressure	99.2
Cancer (excluding skin)	99.1
Asthma	43.1
Coronary Heart Disease	99.4
Chronic Obstructive Pulmonary Disease	97.7
Diagnosed Diabetes	98.9
Life Expectancy at Birth	60.7
Cognitively Disabled	56.3
Physically Disabled	85.5

Heart Attack ER Admissions	94.1
Mental Health Not Good	39.0
Chronic Kidney Disease	98.6
Obesity	48.4
Pedestrian Injuries	82.1
Physical Health Not Good	92.3
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	0.9
Current Smoker	26.1
No Leisure Time for Physical Activity	70.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.0
Elderly	99.1
English Speaking	59.8
Foreign-born	15.2
Outdoor Workers	23.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	15.8
Traffic Density	70.4
Traffic Access	53.4
Other Indices	—
Hardship	39.7
Other Decision Support	—
2016 Voting	15.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	53.0000
Healthy Places Index Score for Project Location (b)	15.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	16.05 total acres Proposed RM-3-9 zoning allows: 1,165 multi-family dwelling units, 1,188,535 sf 188,767 sf retail
Construction: Construction Phases	Architectural coatings simultaneous with last 30% of building construction
Operations: Vehicle Data	Residential - 6 trips/du Retail (supermarket) - 150 trips/ksf Trip length - 2.7 miles based on Midway - Pacific Highway EIR
Operations: Hearths	No fireplaces or wood stoves

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	30.6579	14.0600
Building Area	sq. ft	1,118,400	1,188,535
Landscape Area	sq. ft	—	0.00000
Lot Area	acre	4.33349	1.99000
Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Architectural Coating	Architectural Coating	Start Date	6/21/2028	1/18/2028
Architectural Coating	Architectural Coating	End Date	7/19/2028	5/22/2028
Architectural Coating	Architectural Coating	Work Days per Phase	20.0000	90.0000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Weekday Trip Rate	size/day	5.44000	6.00000
Apartments Mid Rise	Saturday Trip Rate	size/day	4.91000	6.00000
Apartments Mid Rise	Sunday Trip Rate	size/day	4.09000	6.00000
Apartments Mid Rise	Res H-W Trip Length	miles	5.68279	2.70000
Apartments Mid Rise	Res H-S Trip Length	miles	4.55331	2.70000
Apartments Mid Rise	Res H-O Trip Length	miles	4.60818	2.70000

Strip Mall	Weekday Trip Rate	size/day	44.3200	150.000
Strip Mall	Saturday Trip Rate	size/day	42.0400	150.000
Strip Mall	Sunday Trip Rate	size/day	20.4300	150.000
Strip Mall	Non-Res H-W Trip Length	miles	10.0149	2.70000
Strip Mall	Non-Res W-O Trip Length	miles	5.83056	2.70000
Strip Mall	Non-Res O-O Trip Length	miles	6.39050	2.70000

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Apartments Mid Rise	Wood Fireplaces	—	408	0
Apartments Mid Rise	Gas Fireplaces	—	641	0
Apartments Mid Rise	No Fireplaces	—	117	1,165
Apartments Mid Rise	Hours/Day	—	3	0
Apartments Mid Rise	Days/Year	—	82	0
Apartments Mid Rise	Wood Mass	lb/year	3,078	0
Apartments Mid Rise	Catalytic Wood Stoves	—	58	0
Apartments Mid Rise	Non-Catalytic Wood Stoves	—	58	0
Apartments Mid Rise	Days/Year	—	82	0
Apartments Mid Rise	Wood Mass	lb/year	3,019	0