

AIR QUALITY ASSESSMENT

**Ramona 9th Street
PDS2025-TM-5665
APN: 284-202-21-00, 284-203-08-00, 284-205-01-00,
and 284-244-01-00
County of San Diego**

Lead Agency:

**County of San Diego
Planning & Development Services
5510 Overland Avenue, Suite 110
San Diego, CA 92123**

Prepared By:

**Jeremy Loudon
Ldn Consulting, Inc.
23811 Washington Ave, #110-333
Murrieta, CA 92562**

Prepared For:

**Warmington Residential
3090 Pullman Street
Costa Mesa, CA 92626**

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TABLE OF CONTENTS

TABLE OF CONTENTS	II
LIST OF FIGURES	III
LIST OF TABLES.....	III
ATTACHMENTS.....	III
LIST OF COMMON ACRONYMS	IV
EXECUTIVE SUMMARY	V
1.0 INTRODUCTION.....	1
1.1 PURPOSE OF THIS STUDY.....	1
1.2 PROJECT LOCATION.....	1
1.3 PROJECT DESCRIPTION.....	1
2.0 EXISTING ENVIRONMENTAL SETTING	4
2.1 EXISTING SETTING	4
2.2 CLIMATE AND METEOROLOGY	4
2.3 REGULATORY STANDARDS	4
2.3.1 FEDERAL STANDARDS AND DEFINITIONS	4
2.3.2 STATE STANDARDS AND DEFINITIONS	7
2.3.3 REGIONAL STANDARDS	9
2.4 CALIFORNIA ENVIRONMENTAL QUALITY ACT SIGNIFICANCE THRESHOLDS	10
2.5 SDAPCD RULE 20.2 – AIR QUALITY IMPACT ASSESSMENT SCREENING THRESHOLDS	11
2.6 LOCAL AIR QUALITY	12
3.0 METHODOLOGY	14
3.1 CONSTRUCTION EMISSIONS CALCULATIONS.....	14
3.2 CONSTRUCTION ASSUMPTIONS	15
3.3 OPERATIONAL EMISSIONS	16
3.4 ODOR IMPACTS.....	17
4.0 FINDINGS	18
4.1 CONSISTENCY WITH THE RAQS AND SIP	18
4.2 VIOLATION OF AIR QUALITY STANDARDS	18
4.3 CUMULATIVELY CONSIDERABLE NET INCREASE OF CRITERIA POLLUTANTS CUMULATIVE IMPACT FINDINGS.....	19
4.4 EXPOSURE OF SENSITIVE RECEPTORS	20
4.5 ODOR IMPACT FINDINGS.....	21
5.0 REFERENCES.....	22
6.0 CERTIFICATIONS	23

List of Figures

FIGURE 1-A: PROJECT VICINITY MAP	2
FIGURE 1-B: PROPOSED PROJECT SITE LAYOUT	3
FIGURE 2-A: FEDERAL REGISTER ARCHIVES SCREENSHOT (119 TH CONGRESS)	6

List of Tables

TABLE 2.1: AMBIENT AIR QUALITY STANDARDS	8
TABLE 2.2: SAN DIEGO COUNTY AIR BASIN ATTAINMENT STATUS BY POLLUTANT	10
TABLE 2.3: SCREENING LEVEL THRESHOLDS FOR CRITERIA POLLUTANTS.....	11
TABLE 3.1: EXPECTED CONSTRUCTION EQUIPMENT	16
TABLE 4.1: EXPECTED MAXIMUM DAILY EMISSIONS– POUNDS PER DAY (LB/DAY)	18
TABLE 4.2: EXPECTED SUMMER DAILY POLLUTANT GENERATION.....	19
TABLE 4.3: EXPECTED WINTER DAILY POLLUTANT GENERATION.....	19

Attachments

CALEEMOD.....	24
AERSCREEN FOR DPM PM ₁₀	99
HEALTH RISK CALCULATIONS	104

LIST OF COMMON ACRONYMS

Air Quality Impact Assessments (AQIA)
California Air Resource Board (CARB)
California Ambient Air Quality Standards (CAAQS)
California Environmental Quality Act (CEQA)
Carbon Dioxide (CO₂)
Diesel Particulate Matter (DPM)
Environmental Protection Agency (EPA)
EPA Office of Air Quality Planning and Standards (OAQPS)
Hazardous Air Pollutants (HAPs)
Hydrogen Sulfide (H₂S)
Level of Service (LOS)
Methane (CH₄)
National ambient air quality standards (NAAQS)
Nitrous Oxide (N₂O)
Project Design Features (PDF)
Reactive Organic Gas (ROG)
Regional Air Quality Strategy (RAQS)
San Diego Air Basin (SDAB)
San Diego County Air Pollution Control District (SDAPCD)
San Diego Association of Governments (SANDAG)
South Coast Air Quality Management District (SCAQMD)
Square Foot (SF)
State Implementation Plan (SIP)
Toxic Air Contaminants (TACs)
Vehicle Miles Traveled (VMT)
Volatile Organic Compounds (VOC)

EXECUTIVE SUMMARY

This air quality impact study has been completed to determine the air quality impacts associated with the construction and operation of the proposed Project. The Project seeks to subdivide a 19.65-acre site consisting of 4 parcels into 88 lots at 915 9th Street in the unincorporated area of Ramona in San Diego County.

Construction is anticipated to start in early 2027 and be completed as soon as 17 months later. The first full year of operations is expected in 2029.

Based upon the analysis of construction and operation activities for the proposed Project, a less than significant construction and operational air quality impact would be expected. In addition, a less than significant cumulative impact was found and would be expected for both construction and operations.

A construction health risk analysis was performed for diesel particulate matter (DPM) which may be expected during construction of the Project. The project will be under construction starting in 2027 and as a Project Design Feature (PDF), the Project would ensure that all construction equipment used onsite be rated Tier 4 final. Based on this analysis assuming this PDF, health risks during construction would be less than significant at the point of maximum exposure.

Odors from construction activities typically are noticed from construction equipment, paving activities and sometimes painting activities but are short-term. Based on this, though the Project would generate short-term odors, long-term significant construction odors would not be expected so a less than significant long-term odor impact is expected as well. Operations of the residential uses would not generate odors typically considered objectionable. Because of this, a less than significant odor impact would be expected during the operations of the residential use.

As noted, the Project would include a PDF during construction and was assumed within this analysis and was analyzed as such. Because of this, the following PDF would be a condition to the Project.

PDF-1 - Project-related construction equipment shall use 100% precent Tier 4 Final construction equipment as defined by United States Environmental Protection Agency (EPA) / California Air Resources Board (CARB) standards. Prior to grading, the grading contractor shall submit a letter to the County of San Diego committing to this requirement and providing a list of diesel equipment which will be used onsite to the County for accountability verification.

The proposed project is consistent with the site's General Plan land use designation and zoning and complies with the applicable land use densities assigned to the site. The proposed project would not require any amendments to zoning designations to accommodate this project. Given this, no amendments to zoning designations or Special Area Regulations are needed to accommodate the project. Therefore, since the project is consistent with the General Plan and would have a less than significant direct air quality impact; a significant cumulative operational impact would not be expected. In addition, based on these findings, the project would be consistent with the Regional Air Quality Strategy (RAQS) and State Implementation Plan (SIP).

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality study is to determine potential air quality impacts (if any) that may be created by construction from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to reduce impacts to the extent feasible.

1.2 Project Location

The project site is located at 915 9th Street. The Project site is located on the west side of 9th Street between the intersection of I Street and Ashley Road in the Ramona Community Planning area, within unincorporated San Diego County. The general location of the Project is shown on the Vicinity Map, Figure 1-A.

1.3 Project Description

The project is proposing to develop approximately 19.65 Acres into a single-family residential development consisting of four parcels (APNs: 284-202-21, 284-203-08, 284-205-01, 284-244-01) which would make up two neighborhoods in the Ramona Community Planning Area. Development is proposed on APNs 284-202-21, 284-203-08, and 284-244-01. APN 284-205-01 would remain as a remainder parcel and would not be physically developed; however, the allowable residential density would be transferred to the Project.

Approximately 2.64 acres of the Project site have a designation of Village Residential 7.3 (VR-7.3), within which 16 single-family residences are proposed at a density of approximately 6.06 dwelling units per acre. The remaining 17.02 acres have a designation of Village Residential 2 (VR-2), within which 72 single-family residences are proposed at an overall density of approximately 4.23 dwelling units per acre. Zoning for the site is a mix between Rural Residential and Variable Family Residential (RR & RV).

The Project includes construction of single-family homes, internal private streets, sidewalks, utilities, stormwater infrastructure, and associated site improvements. Access to the Project would be provided from 9th Street via a system of private internal streets. The Project also includes the proposed vacation of a portion of 10th Street and installation of a gated Emergency Vehicle Access (EVA) connection.

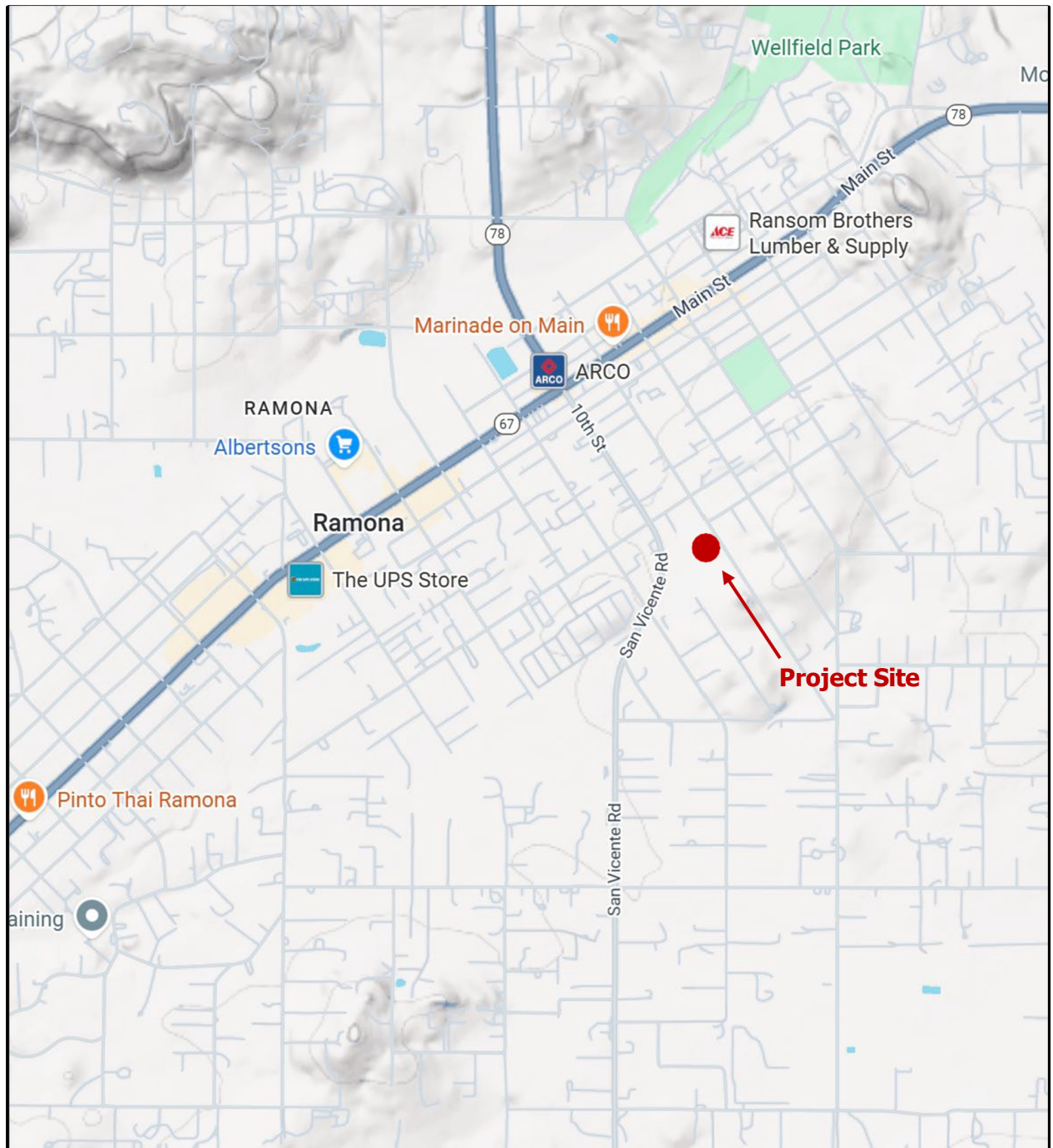
The Project plan would be to start construction in 2027 and be completed in roughly 17 months. The site is mostly vacant, aside from an existing single-family residence and an aging barn located in the northeastern portion of the property which will be demolished as part of

the Project. Grading is expected to require as much as 115,931 cubic yards of export.

During Construction, the Applicant would ensure that all diesel equipment used onsite will be at Tier 4 final.

PDF-1 - Project-related construction equipment shall use 100% percent Tier 4 Final construction equipment as defined by United States Environmental Protection Agency (EPA) / California Air Resources Board (CARB) standards. The grading contractor shall submit a letter to the County of San Diego committing to this requirement.

Figure 1-A: Project Vicinity Map



Source: (Google, 2025)

Figure 1-B: Proposed Project Site Layout



Source: (C&V Consulting, 2026)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The site comprises four separate parcels (APNs: 284-202-21, 284-203-08, 284-205-01, and 284-244-01) and when combined are 19.65 acres. Development is proposed on APNs 284-202-21, 284-203-08, and 284-244-01. APN 284-205-01 is not proposed for physical development and would remain as a remainder parcel; however, its allowable residential density would be transferred to the Project. The General Plan designations for the site are VR-2 and VR-7.3 and the zoning is RR and RV. The site is primarily undeveloped with sparse vegetation, except for one existing single-family home and a barn located in the northeast portion of the property. Surrounding land uses are predominantly residential and would include a school.

2.2 Climate and Meteorology

Climate within the San Diego Air Basin (SDAB), is largely dominated by the semi-permanent high-pressure system over the Pacific Ocean, known as the Pacific High. This high-pressure ridge over the West Coast often creates a pattern of late-night and early-morning low clouds, hazy afternoon sunshine, daytime onshore breezes, and little temperature variation throughout the year. The climatic classification for San Diego is warm with dry summers and mild wet winters (County of San Diego, 2007).

Meteorological trends within the Project area generally show daytime highs ranging between 65 degrees Fahrenheit (°F) in the winter to approximately 94°F in the summer with August usually being the hottest month. Precipitation is generally about 14.55 inches per year (WRCC, 2025). Prevailing wind patterns for the area vary during any given month during the year and also vary depending on the time of day or night. The predominant pattern though throughout the year is usually from the west or westerly (WRCC, 2018).

2.3 Regulatory Standards

Regulatory Standards, which are made up of federal, state and local air quality standards, are set with the intention to reduce human health impacts from exposure to pollutants. Based on these air quality standards, regional and local impact determinations under the California Environmental Quality Act (CEQA) would also be assumed to reduce potential health impacts because they are tied to the higher regulations.

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This

law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. **Primary Standards** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. **Carbon Monoxide (CO):** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. **Lead (Pb):** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. **Nitrogen Dioxide (NO₂):** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO₂ is usually visible as a reddish-brown air layer over urban areas. NO₂ along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO₂ above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO₂ exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.*
4. **Particulate Matter (PM₁₀ or PM_{2.5}):** *is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM₁₀ particles are 10 microns (µm) or less and PM_{2.5} particles are 2.5 (µm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.*
5. **Ozone (O₃):** *is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.*

6. **Sulfur Dioxide (SO₂):** is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO₂ is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO₂ exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO₂ results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.

On June 12, 2025, the President signed into law three new public laws as they relate to the State's ability to control and implement certain vehicle emission programs in the State of California. These laws are Public Law 119-15, -16, and -17 . These laws limit the State of California's independent regulatory authority, but the laws do not change the National or State Ambient Air Quality Standards. In addition, these new laws do not modify any federal or State significance thresholds which may be adopted on a local level. Given this, all thresholds identified in this report consider these new laws. A screenshot of the federal register archives is provided in Figure 2-A below ((United States, 2025):

Figure 2-A: Federal Register Archives Screenshot (119th Congress)

119-17	H.J. Res. 89	Providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to "California State Motor Vehicle and Engine and Nonroad Engine Pollution Control Standards; The 'Omnibus' Low NOX Regulation; Waiver of Preemption; Notice of Decision".	June 12, 2025	139 Stat. 67	1
119-16	H.J. Res. 88	Providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to 2 "California State Motor Vehicle and Engine Pollution Control Standards; Advanced Clean Cars II; Waiver of Preemption; Notice of Decision".	June 12, 2025	139 Stat. 66	1
119-15	H.J. Res. 87	Providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to "California State Motor Vehicle and Engine Pollution Control Standards; Heavy-Duty Vehicle and Engine Emission Warranty and Maintenance Provisions; Advanced Clean Trucks; Zero Emission Airport Shuttle; Zero-Emission Power Train Certification; Waiver of Preemption; Notice of Decision".	June 12, 2025	139 Stat. 65	1

2.3.2 State Standards and Definitions

CARB sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) is similar to the NAAQS and also restricts four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. **Visibility Reducing Particles:** *Particles in the Air that obstruct the visibility.*
2. **Sulfates:** *are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.*
3. **Hydrogen Sulfide (H₂S):** *is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H₂S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H₂S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 Parts per Million (ppm)) can cause a loss of consciousness and possibly death.*
4. **Vinyl Chloride:** *also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).*

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	Average Time	California Standards ¹		Federal Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 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	9.0 µg/m ³		
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m ³)	-	Non-Dispersive Infrared Photometry
	1 hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		-		
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m ³) ⁸	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m ³)		0.100 ppm ⁸ (188/ µg/m ³)		
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm ¹⁰ (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) ⁹
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9)	-	
	3 Hour	-		-	0.5 ppm (1300 µg/m ³)	
	1 Hour	0.25 ppm (655 µg/m ³)		75 ppb (196 µg/m ³)	-	
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	-	Same as Primary Standard	-
	Calendar Quarter	-		1.5 µg/m ³		
	Rolling 3-Month Average	-		0.15 µg/m ³		
Visibility Reducing Particles	8 Hour	See footnote 14				
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography			
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 Chromatography			
1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM₁₀, 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 PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ 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°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 procedure which can be shown to the satisfaction of the ARB 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 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 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. On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24- hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ 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 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard 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 SO₂ 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 SO₂ 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 nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. 12. The ARB 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/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment 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: (California Air Resources Board, 5/4/2016)						

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. California Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants are designated as “non-attainment areas” for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the PM_{2.5} standard and many areas are in non-attainment for PM₁₀ as well. The state therefore created the California SIP, which is designed to provide control measures needed for California Air basins to attain ambient air quality standards.

The San Diego Air Pollution Control District (SDAPCD) is the government agency which regulates sources of air pollution within the county. Therefore, the SDAPCD developed a Regional Air Quality Strategy (RAQS) to provide control measures to try to achieve attainment status for state ozone standards with control measures focused on VOCs and NO_x. Currently, San Diego is in “non-attainment” status for federal and state O₃ and state PM₁₀ and PM_{2.5}. An attainment plan is available for O₃. The RAQS was adopted in 1992 and has been updated as recently as 2022 which was the latest update incorporating minor changes to the prior 2016 update.

The 2022 update mostly summarizes how the 2016 update has lowered NO_x and VOCs emissions which reduces ozone and clarifies and enhances emission reductions by introducing for discussion three new VOC and four new NO_x reduction measures. NO_x and VOCs are precursors to the formation of ozone in the atmosphere. The criteria pollutant standards are generally attained when each monitor within the region has had no exceedances during the previous three calendar years. A complete listing of the current attainment status for criteria pollutants with respect to both federal and state nonattainment status by pollutants for County is shown in Table 2.2 on the following page (SDAPCD, 2023).

The RAQS is largely based on population projections by the San Diego Association of Governments (SANDAG). SANDAG uses the General Plan land use maps as the basis for growth in the unincorporated area (County of San Diego, 2010). The USDRIP is no exception and since it was approved in 2000 and is part of the County’s General Plan, it is part of SANDAG’s growth projections. Projects that produce less growth than projected by SANDAG would generally conform to the RAQS. Projects that create more growth than projected by SANDAG may create a significant impact assuming the project produces unmitigable air quality emission in excess of regional air quality standards. Also, the project would be considered a significant impact if the project produces cumulative impacts.

Table 2.2: San Diego County Air Basin Attainment Status by Pollutant

Criteria Pollutant	Federal Designation	State Designation
Ozone (8-Hour)	Nonattainment	Nonattainment
Ozone (1-Hour)	Attainment *	Nonattainment
Carbon Monoxide	Attainment	Attainment
PM10	Unclassifiable **	Nonattainment
PM2.5	Attainment	Nonattainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility	No Federal Standard	Unclassified
* The federal 1-hour standard of 12 pphm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans. ** At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable. (SDAPCD, 2019)		

2.4 California Environmental Quality Act Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines (California Natural Resources Agency, 2016) and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

- A:* Conflict with or obstruct implementation of the applicable air quality plan?
- B:* Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- C:* Expose sensitive receptors to substantial pollutant concentrations?
- D:* Result in other emissions (such as those leading to odors adversely affecting a substantial number of people?

It should be noted that the County's Air Quality guidelines from 2007 (County of San Diego, 2007) are outdated and are slightly different. Because of this, it is recommended to use the latest CEQA guidelines as are cited instead.

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established recommended trigger levels in Rule 20.2 for new or modified stationary sources. Through the County's Guidelines for Determining Significance and Report Format and Content Requirements, the County has approved these trigger levels as Screening Level Thresholds¹ (SLTs) for use in determining CEQA air quality impacts (County of San Diego, 2007). These SLTs can be used to evaluate if a project's total emissions would result in a significant impact as defined by CEQA. However, since SDAPCD does not have recommended trigger level for VOCs, the County has adopted the South Coast Air Quality Management District's (SCAQMD's) VOC threshold for the Coachella Valley.

Should emissions be found to exceed these County adopted SLTs, additional modeling is required to demonstrate that the project's total air quality impacts are below the state and federal ambient air quality standards. These SLTs for construction and operational activities are shown in Table 2.3.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

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

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

Non-criteria pollutants such as hazardous air pollutants (HAPs) or toxic air contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk to between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the project increase the incremental cancer risk to over 10 in one million or a health hazard index (chronic and acute) greater than one since risks above. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

Under Federal law, 188 substances are listed as HAPs (EPA, 2022). State law has established the framework for California's TAC identification and control program, which is generally more stringent than the Federal program, and is aimed at HAPs that are a problem in California. The State has formally identified more than 200 substances as TACs and is adopting appropriate control measures for sources of these TACs. Per the County's air quality guidelines, for typical land use projects that do not propose source of emissions regulated by APCD, diesel fired particulates are the primary TAC of concern (County of San Diego, 2007).

2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the San Diego Air Basin. This data is used to track ambient air quality patterns throughout the County. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS. The SDAPCD is responsible for monitoring and reporting monitoring data (CARB, 2026). SDAPCD operates monitoring sites, which collect data on criteria pollutants. The proposed development project is closest to the El Cajon monitoring location. Table 2.4 on the following page identifies the criteria pollutants monitored at the aforementioned stations.

Table 2.4: Four-Year Ambient Air Quality Summary near the Project Site

Pollutant	Closest Recorded Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2022	2023	2024	Days Exceeded over 3 years
O ₃ (ppm)	El Cajon Monitoring Station	1 Hour	0.09 ppm	No Standard	0.10	0.099	0.128	4
		8 Hour	0.070 ppm	0.070 ppm	0.088	0.077	0.090	13
PM ₁₀ (µg/m³)		24 Hour	50 µg/m³	150 µg/m³	40	44	42	N/A
		Annual Arithmetic Mean	20 µg/m³	No Standard	22.0	21.6	20.5	N/A
PM _{2.5} (µg/m³)		24 Hour	No standard -	35 µg/m³	26.4	23.2	26.2	N/A
		Annual Arithmetic Mean	12 µg/m³	15 µg/m³	9.7	9.1	8.9	N/A
NO ₂ (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.008	0.006	0.006	N/A
		1 Hour	0.18 ppm	0.100 ppm	0.037	0.039	0.036	N/A
Notes: 1. Days exceeded marked with "N/A" indicate no data available								

3.0 **METHODOLOGY**

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using CalEEMod Version 2022.1.1.41. The current web-based CalEEMod platform is maintained by ICF in collaboration with the Sacramento Metropolitan Air Quality Management District SMAQMD, while earlier program versions were developed by SCAQMD. The CalEEMod input/output model is shown in **Attachment A** to this report.

The AERSCREEN dispersion model will be used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model identifies the maximum exposure distance and concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects. Diesel exhaust emissions can be estimated using the annual PM10 exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration. The AERSCREEN input/output files for the proposed Project are shown in **Attachment B** of this report.

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

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

Dose _{air}	=	Dose through inhalation (mg/kg/d)
C _{air}	=	Concentration in air (µg/m ³) – dispersion models predict a 1-hr concentration and is corrected to an annual average concentration by multiplying the 1-hr average by 0.10 (US EPA, 2021)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 (OEHHA, 2015) for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10 ⁻⁶	=	Milligrams to micrograms conversion (10 ⁻³ mg/ µg), cubic meters to liters conversion (10 ⁻³ m ³ /l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. The excess cancer risk is

calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within **Attachment C** to this report. The cancer risk calculation is defined in Equation 2 (OEHHA, 2015):

Equation 2 $RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$

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

The Office of Environmental Health Hazard Assessment (OEHHA) recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Exposure durations of 9 years and 70 years are recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9- and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years. For the purposes of this analysis, a 70-year cancer risk was estimated.

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

3.2 Construction Assumptions

CalEEMod Version 2022.1 was utilized for all construction emissions calculations for the proposed residential development. The Project construction dates assumed default settings within the software and are shown in Table 3.1 below. It should be noted, the County's Grading Ordinance imposes specific dust control and emissions reduction measures during construction (e.g., watering requirements, soil stabilization), these were not modeled as project-specific mitigation in CalEEMod.

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Demolition	5/1/2027	5/15/2027	
Excavators			2
Concrete/Industrial Saws			1
Skid Steer Loaders			1
Site Preparation	5/16/2027	5/29/2027	
Rubber Tired Dozers			2
Tractors/Loaders/Backhoes			2
Excavators			2
Grading	5/30/2027	7/3/2027	
Graders			1
Excavators			2
Tractors/Loaders/Backhoes			2
Scrapers			2
Rubber Tired Dozers			1
Building Construction	7/4/2027	8/12/2028	
Generator Sets			1
Welders			1
Tractors/Loaders/Backhoes			3
Rough Terrain Forklifts			2
Paving	8/13/2028	9/9/2028	
Pavers			2
Paving Equipment			2
Rollers			2
Architectural Coating	9/2/2028	11/3/2028	
Air Compressors			1
This equipment and durations were selected based on CalEEMod defaults in CalEEMod 2022.1			

3.3 Operational Emissions

Once construction is completed the proposed project would generate emissions from daily operations which would include sources such as Area, and mobile emissions which are also calculated within CalEEMod. Area Sources include consumer products, landscaping and architectural coatings as part of regular maintenance. Traffic generation and assumptions were taken from the traffic generation tables prepared for the project (LLG Engineers, 2026) which were estimated at 897 ADT. Outside of traffic, default settings in CalEEMod were assumed for this Project. The Operational model is shown in **Attachment A** at the end of this report.

Micro Scale Operational Emissions

Air pollutant emissions related to project traffic have the potential to create new air quality violations or worsen existing localized air quality violations with respect to carbon monoxide (CO). These increased carbon monoxide "Hot Spots" are determined through the utilization of the ITS Transportation Project-Level Carbon Monoxide Protocol (University of California, Davis for California Department of Transportation, 1997).

In the event the proposed project generated traffic adds vehicular trips to either an intersection that operates at a Level of Service (LOS) E or F or any intersection where the project trips degrade the intersection level of service from LOS D or better to LOS E or F, and when peak-hour trips at the intersection exceed 3,000, the project should quantify CO levels.

If a CO "hotspot" analysis were warranted, carbon monoxide concentrations would be estimated using an approved dispersion model such as CALINE4 or AERMOD, consistent with the methodology outlined in the ITS Transportation Project-Level Carbon Monoxide Protocol (University of California, Davis for California Department of Transportation, 1997). A project will result in a significant impact if:

- 1-hour CO concentration exceeds 20 parts per million (ppm), or
- 8-hour CO concentration exceeds 9 ppm (California and federal standard)

3.4 Odor Impacts

Potential onsite construction odor generators would include short term construction odors from activities such as paving and possibly painting. Odors created from paving would include asphalt laying, which has a slight odor from the bitumen and solvents used within hot asphalt.

4.0 **FINDINGS**

4.1 Consistency with the RAQS and SIP

The RAQS and SIP are based on population growth and land use assumptions from local General Plans. The Project site has GP land use designations of VR-2 and VR-7.3 and zoning of RR and RV. The Project proposes development consistent with these existing GP designations and zoning districts and would not require any modifications to existing zoning. Therefore, the Project is consistent with the regional growth projections used in the development of the RAQS and SIP and would not conflict with either plan.

4.2 Violation of Air Quality Standards

Construction Emissions

Emissions from construction activities and equipment use, identified in Section 3.2, are presented in pounds per day and are shown in Table 4.1 below. Based on these numbers, the project would not exceed County SLTs and would have less than significant impacts to public health.

Table 4.1: Expected Maximum Daily Emissions– Pounds per Day (lb/day)

Year	VOC	NO_x	CO	SO₂	PM₁₀ (Total)	PM_{2.5} (Total)
2027	1.38	41.60	50.59	0.26	21.12	9.16
2028	36.85	2.63	13.19	0.02	0.36	0.11
Screening Level Threshold (lb/day)	75	250	550	250	100	55
% lower than Standard	50.87%	83.36%	90.80%	99.90%	78.88%	83.35%
Exceeds Threshold?	No	No	No	No	No	No

Operational Findings

Project Buildout and the first full year of operations is expected in 2029 which would consist of sources such as mobile and area sources as noted in Section 3.3. The expected daily pollutant generation is calculated in CalEEMod 2022.1 and is shown for the summer and winter scenarios in Tables 4.2 and 4.3 below. Based on these results, the Project would have a less than significant impact in the County once fully operational for emissions of VOCs, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}.

Table 4.2: Expected Summer Daily Pollutant Generation

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Mobile	3.74	3.24	37.35	0.10	9.67	2.50
Area	6.52	0.05	5.01	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total (Unmitigated)	10.26	3.29	42.35	0.10	9.67	2.50
Screening Level Threshold (lb/day)	75	250	550	250	100	55
Exceeds Threshold?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod. The final numbers are all rounded within Excel and are reported as rounded numbers.						

Table 4.3: Expected Winter Daily Pollutant Generation

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Mobile	3.69	3.55	34.06	0.10	9.67	2.50
Area	6.08	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total (Unmitigated)	9.77	3.55	34.06	0.10	9.67	2.50
Screening Level Threshold (lb/day)	75	250	550	250	100	55
Exceeds Threshold?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod. The final numbers are all rounded within Excel and are reported as rounded numbers.						

Carbon Monoxide Impacts (CO)

The Project is located in a rural area and does not generate substantial traffic volumes. No signalized intersections with peak-hour trips exceeding 3,000 are located near the site. Therefore, the Project would not be expected to result in a CO hotspot or cause an exceedance of the CO ambient air quality standards. As such, the Project's contribution to localized CO impacts would be less than significant.

4.3 Cumulatively Considerable Net Increase of Criteria Pollutants Cumulative Impact Findings

Cumulative construction impacts would occur when either there are direct air quality impacts or when multiple construction projects occur within the same area simultaneously. To illustrate this, if a Project were to produce air quality emissions simultaneous to a nearby construction project the addition of both project emissions to the environment could exceed significance thresholds. If a nearby project was to be under construction at the same time,

that project would need to produce an additive amount of emissions close to the Project site such that emissions would exceed thresholds.

The Project is located in a rural area of the County and nearby construction activities are not expected near this Project. It should be noted however that after reviewing the expected emissions as identified in Table 4.1 above, the Project emissions are between approximately 51 and nearly 100 percent lower than County SLTs². So, even if an identical project were constructed adjacent to the Project site, cumulatively considerable construction impacts would not be likely. Given this, a less than significant cumulative construction impact would be expected. This means the Project would not have any adverse impacts to human health within the community.

The proposed project is consistent with the site's General Plan land use designation and zoning and complies with the applicable land use densities assigned to the site. Since the Project is consistent with the General Plan cumulative operational impacts would not be expected.

4.4 Exposure of Sensitive Receptors

The proposed project will incorporate PDF-1 as noted in Section 1 above which includes the use of all Tier 4 Final equipment during the grading and construction of the proposed project. Based upon air quality modeling, worst-case PM₁₀ from exhaust onsite during each of the construction tasks would cumulatively produce 0.00682 tons over the construction duration 552 days or an average of 0.000130 grams/second.

Utilizing the AERSCREEN dispersion model, we find that the worst-case annual concentration would be 0.0373 µg/m³ during construction. Utilizing the risk equation identified above in Section 3.1, the maximum cancer risk for the Project was found to be 9.79 per one million exposed over the construction duration which would be considered a less than significant impact if T-BACT equipment is utilized under PDF-1. The cancer risk value represents the point of maximum modeled concentration at a conservative radial distance from the Project boundary, as determined by the AERSCREEN model, and not a specific offsite sensitive receptor. Since Tier 4 Final T-BACT equipment will be utilized as a design feature and as a condition of the Project, the Project construction activities would generate less than significant cancer health risks by remaining below the SDAPCD Rule 1200 Significance threshold of 10 in one million with implementation of T-BACT.

² As noted in Section 2.5, the County's SLTs are based on state and federal air quality standards established to protect public health. Consistent with the *Sierra Club v. County of Fresno* (2018) (Friant Ranch) decision, compliance with these thresholds indicates the Project's air-quality impacts would not cause adverse health effects.

There are also known acute and chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the hourly and annual concentrations of 0.372 and 0.0372 $\mu\text{g}/\text{m}^3$ divided by the Chronic REL of 5 $\mu\text{g}/\text{m}^3$ yields a Health Hazard Index of less than one or 0.075 or less. Therefore, acute or chronic non-cancer risks are expected to be less than significant or below the SDAPCD Rule 1200 hazard index threshold of 1.0 with implementation of Tier 4 Final T-BACT equipment.

The Project is a residential use and would not generate TACs once fully operational. Given this, a less than significant health risk would be expected during Project operations.

4.5 Odor Impact Findings

Impacts associated with asphalt laying activities would be short term as shown in Table 3.1 above and are expected to be less than significant. The operations would consist of residential uses which do not typically generate offensive odors. Based on this, operational odor impacts would be less than significant odor impact.

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6.0 CERTIFICATIONS

The contents of this report represent an accurate depiction of the air quality environment and impacts within and surrounding the proposed development. This report was prepared utilizing the latest emission rates and reduction methodologies. This report was prepared by Jeremy Loudon; a County approved CEQA Consultant for Air Quality.

DRAFT

Jeremy Loudon, Principal
Ldn Consulting, Inc.
(760) 473-1253
jloudon@ldnconsulting.net

Date July 7, 2026

ATTACHMENT A

CalEEMod

9th Street Residential Ramona Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year
 - 2.2.1. Total Construction Emissions by Year, Unmitigated
 - 2.2.2. Onsite Construction Emissions by Year, Unmitigated
 - 2.2.3. Offsite Construction Emissions by Year, Unmitigated
 - 2.2.4. Total Construction Emissions by Year, Mitigated
 - 2.2.5. Onsite Construction Emissions by Year, Mitigated
 - 2.2.6. Offsite Construction Emissions by Year, Mitigated
 - 2.3. Operations Emissions Compared Against Thresholds
 - 2.4. Operations Emissions by Sector, Unmitigated

2.5. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

3.1.2. Offsite - Unmitigated

3.1.3. Onsite - Mitigated

3.1.4. Offsite - Mitigated

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

3.2.2. Offsite - Unmitigated

3.2.3. Onsite - Mitigated

3.2.4. Offsite - Mitigated

3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

3.3.2. Offsite - Unmitigated

3.3.3. Onsite - Mitigated

3.3.4. Offsite - Mitigated

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

3.4.2. Offsite - Unmitigated

3.4.3. Onsite - Mitigated

3.4.4. Offsite - Mitigated

3.5. Building Construction (2028)

3.5.1. Onsite - Unmitigated

3.5.2. Offsite - Unmitigated

3.5.3. Onsite - Mitigated

3.5.4. Offsite - Mitigated

3.6. Paving (2028)

3.6.1. Onsite - Unmitigated

3.6.2. Offsite - Unmitigated

3.6.3. Onsite - Mitigated

3.6.4. Offsite - Mitigated

3.7. Architectural Coating (2028)

3.7.1. Onsite - Unmitigated

3.7.2. Offsite - Unmitigated

3.7.3. Onsite - Mitigated

3.7.4. Offsite - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

8.3. Land Use

8.4. Construction

8.4.1. Construction Phases

8.4.2. Off-Road Equipment

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

8.5.2. Area Sources

8.5.2.1. Hearths

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	9th Street Residential Ramona
Construction Start Date	5/1/2027
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20000
Precipitation (days)	3.40000
Location	915 9th St, Ramona, CA 92065, USA
County	San Diego
City	Unincorporated
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6115
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.41

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
Single Family Housing	88.0000	Dwelling Unit	19.6500	263,116	1,030,731	—	246.000	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	36.8508	41.5974	50.5872	0.25769	0.68618	20.5391	21.1181	0.49879	8.74847	9.15705	—	35,966.9	35,966.9	1.76578	4.67000	37,460.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	36.6393	2.12356	13.1099	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,289.23	2,289.23	0.09605	0.05740	2,308.78
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.65424	4.84714	9.18716	0.03064	0.07580	1.89148	1.96728	0.05821	0.67370	0.73191	—	4,141.97	4,141.97	0.19774	0.45812	4,286.01
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.84940	0.88460	1.67666	0.00559	0.01383	0.34520	0.35903	0.01062	0.12295	0.13357	—	685.750	685.750	0.03274	0.07585	709.598

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.37508	41.5974	50.5872	0.25769	0.68618	20.5391	21.1181	0.49879	8.74847	9.15705	—	35,966.9	35,966.9	1.76578	4.67000	37,460.9
2028	36.8508	2.63101	13.1897	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,294.15	2,294.15	0.08588	0.05670	2,314.49
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28875	2.12356	13.1099	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,289.23	2,289.23	0.09605	0.05740	2,308.78
2028	36.6393	2.10018	13.0404	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,278.52	2,278.52	0.08657	0.05670	2,297.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.22676	4.84714	9.18716	0.03064	0.07580	1.89148	1.96728	0.05821	0.67370	0.73191	—	4,141.97	4,141.97	0.19774	0.45812	4,286.01
2028	4.65424	1.11343	6.50216	0.00951	0.01713	0.15770	0.17483	0.01713	0.03807	0.05520	—	1,117.25	1,117.25	0.04243	0.02630	1,126.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.04138	0.88460	1.67666	0.00559	0.01383	0.34520	0.35903	0.01062	0.12295	0.13357	—	685.750	685.750	0.03274	0.07585	709.598
2028	0.84940	0.20320	1.18664	0.00173	0.00313	0.02878	0.03191	0.00313	0.00695	0.01007	—	184.973	184.973	0.00702	0.00435	186.490

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.63931	4.42560	35.3475	0.06093	0.12400	13.2428	13.3103	0.12400	6.75588	6.82345	—	6,598.08	6,598.08	0.26765	0.05353	6,620.72
2028	36.7779	2.57890	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.17253	1.73028	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65

2028	36.6179	1.73028	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.11806	1.10020	7.29534	0.01161	0.02191	1.01978	1.04168	0.02191	0.43937	0.46128	—	1,206.17	1,206.17	0.04893	0.00979	1,210.31
2028	4.59927	0.94742	5.90961	0.00881	0.01574	0.00000	0.01574	0.01574	0.00000	0.01574	—	887.120	887.120	0.03599	0.00720	890.164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02155	0.20079	1.33140	0.00212	0.00400	0.18611	0.19011	0.00400	0.08019	0.08418	—	199.695	199.695	0.00810	0.00162	200.380
2028	0.83937	0.17290	1.07850	0.00161	0.00287	0.00000	0.00287	0.00287	0.00000	0.00287	—	146.873	146.873	0.00596	0.00119	147.377

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.73577	37.1718	15.2396	0.19676	0.56218	8.04864	8.61082	0.37479	2.19691	2.57170	—	29,368.8	29,368.8	1.49814	4.61647	30,840.2
2028	0.11594	0.34827	1.35718	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	504.822	504.822	0.01329	0.04218	519.024
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.11622	0.39328	1.27733	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	499.722	499.722	0.02346	0.04288	513.124
2028	0.11413	0.36990	1.20781	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	489.199	489.199	0.01399	0.04218	502.153
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.10870	3.74694	1.89183	0.01903	0.05389	0.87171	0.92560	0.03630	0.23433	0.27063	—	2,935.80	2,935.80	0.14881	0.44833	3,075.70
2028	0.05497	0.16601	0.59255	0.00070	0.00139	0.15770	0.15910	0.00139	0.03807	0.03946	—	230.127	230.127	0.00644	0.01910	236.246
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.01984	0.68382	0.34526	0.00347	0.00984	0.15909	0.16892	0.00662	0.04276	0.04939	—	486.054	486.054	0.02464	0.07423	509.218
2028	0.01003	0.03030	0.10814	0.00013	0.00025	0.02878	0.02904	0.00025	0.00695	0.00720	—	38.1001	38.1001	0.00107	0.00316	39.1132

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.37508	41.5974	50.5872	0.25769	0.68618	20.5391	21.1181	0.49879	8.74847	9.15705	—	35,966.9	35,966.9	1.76578	4.67000	37,460.9
2028	36.8508	2.63101	13.1897	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,294.15	2,294.15	0.08588	0.05670	2,314.49
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28875	2.12356	13.1099	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,289.23	2,289.23	0.09605	0.05740	2,308.78
2028	36.6393	2.10018	13.0404	0.01937	0.03475	0.32813	0.36288	0.03475	0.07944	0.11419	—	2,278.52	2,278.52	0.08657	0.05670	2,297.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.22676	4.84714	9.18716	0.03064	0.07580	1.89148	1.96728	0.05821	0.67370	0.73191	—	4,141.97	4,141.97	0.19774	0.45812	4,286.01
2028	4.65424	1.11343	6.50216	0.00951	0.01713	0.15770	0.17483	0.01713	0.03807	0.05520	—	1,117.25	1,117.25	0.04243	0.02630	1,126.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.04138	0.88460	1.67666	0.00559	0.01383	0.34520	0.35903	0.01062	0.12295	0.13357	—	685.750	685.750	0.03274	0.07585	709.598
2028	0.84940	0.20320	1.18664	0.00173	0.00313	0.02878	0.03191	0.00313	0.00695	0.01007	—	184.973	184.973	0.00702	0.00435	186.490

2.2.5. Onsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.63931	4.42560	35.3475	0.06093	0.12400	13.2428	13.3103	0.12400	6.75588	6.82345	—	6,598.08	6,598.08	0.26765	0.05353	6,620.72
2028	36.7779	2.57890	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.17253	1.73028	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65
2028	36.6179	1.73028	11.8326	0.01779	0.03159	0.00000	0.03159	0.03159	0.00000	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.11806	1.10020	7.29534	0.01161	0.02191	1.01978	1.04168	0.02191	0.43937	0.46128	—	1,206.17	1,206.17	0.04893	0.00979	1,210.31
2028	4.59927	0.94742	5.90961	0.00881	0.01574	0.00000	0.01574	0.01574	0.00000	0.01574	—	887.120	887.120	0.03599	0.00720	890.164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.02155	0.20079	1.33140	0.00212	0.00400	0.18611	0.19011	0.00400	0.08019	0.08418	—	199.695	199.695	0.00810	0.00162	200.380
2028	0.83937	0.17290	1.07850	0.00161	0.00287	0.00000	0.00287	0.00287	0.00000	0.00287	—	146.873	146.873	0.00596	0.00119	147.377

2.2.6. Offsite Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.73577	37.1718	15.2396	0.19676	0.56218	8.04864	8.61082	0.37479	2.19691	2.57170	—	29,368.8	29,368.8	1.49814	4.61647	30,840.2
2028	0.11594	0.34827	1.35718	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	504.822	504.822	0.01329	0.04218	519.024
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.11622	0.39328	1.27733	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	499.722	499.722	0.02346	0.04288	513.124
2028	0.11413	0.36990	1.20781	0.00158	0.00316	0.32813	0.33130	0.00316	0.07944	0.08260	—	489.199	489.199	0.01399	0.04218	502.153
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.10870	3.74694	1.89183	0.01903	0.05389	0.87171	0.92560	0.03630	0.23433	0.27063	—	2,935.80	2,935.80	0.14881	0.44833	3,075.70
2028	0.05497	0.16601	0.59255	0.00070	0.00139	0.15770	0.15910	0.00139	0.03807	0.03946	—	230.127	230.127	0.00644	0.01910	236.246
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2027	0.01984	0.68382	0.34526	0.00347	0.00984	0.15909	0.16892	0.00662	0.04276	0.04939	—	486.054	486.054	0.02464	0.07423	509.218
2028	0.01003	0.03030	0.10814	0.00013	0.00025	0.02878	0.02904	0.00025	0.00695	0.00720	—	38.1001	38.1001	0.00107	0.00316	39.1132

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.2964	3.91998	42.6241	0.10722	0.12305	9.59808	9.72113	0.11797	2.43432	2.55229	37.3555	11,387.5	11,424.8	4.27005	0.37563	11,671.5
Mit.	10.2593	3.28637	42.3545	0.10318	0.07182	9.59808	9.66990	0.06674	2.43432	2.50107	37.3555	10,583.6	10,621.0	4.19916	0.37415	10,865.4
% Reduced	< 0.5%	16%	1%	4%	42%	—	1%	43%	—	2%	—	7%	7%	2%	< 0.5%	7%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.80733	4.18535	34.3272	0.10234	0.12076	9.59808	9.71884	0.11625	2.43432	2.55057	37.3555	10,902.4	10,939.7	4.28330	0.39528	11,167.2
Mit.	9.77026	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	37.3555	10,098.5	10,135.9	4.21241	0.39380	10,361.1
% Reduced	< 0.5%	15%	1%	4%	42%	—	1%	44%	—	2%	—	7%	7%	2%	< 0.5%	7%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.98018	4.16827	37.0476	0.10316	0.12189	9.57711	9.69900	0.11710	2.42908	2.54618	37.3555	10,980.6	11,017.9	4.27936	0.39216	11,254.9
Mit.	9.94311	3.53466	36.7780	0.09911	0.07066	9.57711	9.64777	0.06587	2.42908	2.49495	37.3555	10,176.7	10,214.1	4.20848	0.39068	10,448.9
% Reduced	< 0.5%	15%	1%	4%	42%	—	1%	44%	—	2%	—	7%	7%	2%	< 0.5%	7%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.82138	0.76071	6.76119	0.01883	0.02224	1.74782	1.77007	0.02137	0.44331	0.46468	6.18463	1,817.96	1,824.14	0.70850	0.06493	1,863.38
Mit.	1.81462	0.64508	6.71199	0.01809	0.01290	1.74782	1.76072	0.01202	0.44331	0.45533	6.18463	1,684.87	1,691.05	0.69676	0.06468	1,729.93

% Reduced	< 0.5%	15%	1%	4%	42%	—	1%	44%	—	2%	—	7%	7%	2%	< 0.5%	7%
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2.4. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Area	6.51500	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	0.00000	13.3485	13.3485	0.00056	0.00011	13.3954
Energy	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	871.030	871.030	0.12004	0.00744	876.247
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	10.2964	3.91998	42.6241	0.10722	0.12305	9.59808	9.72113	0.11797	2.43432	2.55229	37.3555	11,387.5	11,424.8	4.27005	0.37563	11,671.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Area	6.08188	0.00000	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	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	871.030	871.030	0.12004	0.00744	876.247
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	9.80733	4.18535	34.3272	0.10234	0.12076	9.59808	9.71884	0.11625	2.43432	2.55057	37.3555	10,902.4	10,939.7	4.28330	0.39528	11,167.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.64763	3.51152	34.3094	0.09900	0.06952	9.57711	9.64664	0.06501	2.42908	2.49409	—	10,088.0	10,088.0	0.39921	0.36891	10,219.2
Area	6.29547	0.02314	2.46860	0.00011	0.00113	—	0.00113	0.00086	—	0.00086	0.00000	6.58281	6.58281	0.00028	0.00005	6.60597

Energy	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	871.030	871.030	0.12004	0.00744	876.247
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	9.98018	4.16827	37.0476	0.10316	0.12189	9.57711	9.69900	0.11710	2.42908	2.54618	37.3555	10,980.6	11,017.9	4.27936	0.39216	11,254.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90
Area	1.14892	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	0.00000	1.08986	1.08986	0.00005	0.00001	1.09369
Energy	0.00677	0.11563	0.04921	0.00074	0.00935	—	0.00935	0.00935	—	0.00935	—	144.209	144.209	0.01987	0.00123	145.073
Water	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233
Waste	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199
Total	1.82138	0.76071	6.76119	0.01883	0.02224	1.74782	1.77007	0.02137	0.44331	0.46468	6.18463	1,817.96	1,824.14	0.70850	0.06493	1,863.38

2.5. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Area	6.51500	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	0.00000	13.3485	13.3485	0.00056	0.00011	13.3954
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	67.1738	67.1738	0.04915	0.00596	70.1781
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	10.2593	3.28637	42.3545	0.10318	0.07182	9.59808	9.66990	0.06674	2.43432	2.50107	37.3555	10,583.6	10,621.0	4.19916	0.37415	10,865.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Area	6.08188	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	67.1738	67.1738	0.04915	0.00596	70.1781
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	9.77026	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	37.3555	10,098.5	10,135.9	4.21241	0.39380	10,361.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.64763	3.51152	34.3094	0.09900	0.06952	9.57711	9.64664	0.06501	2.42908	2.49409	—	10,088.0	10,088.0	0.39921	0.36891	10,219.2
Area	6.29547	0.02314	2.46860	0.00011	0.00113	—	0.00113	0.00086	—	0.00086	0.00000	6.58281	6.58281	0.00028	0.00005	6.60597
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	67.1738	67.1738	0.04915	0.00596	70.1781
Water	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Waste	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	9.94311	3.53466	36.7780	0.09911	0.07066	9.57711	9.64777	0.06587	2.42908	2.49495	37.3555	10,176.7	10,214.1	4.20848	0.39068	10,448.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90
Area	1.14892	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	0.00000	1.08986	1.08986	0.00005	0.00001	1.09369
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	11.1214	11.1214	0.00814	0.00099	11.6188
Water	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233
Waste	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199
Total	1.81462	0.64508	6.71199	0.01809	0.01290	1.74782	1.76072	0.01202	0.44331	0.45533	6.18463	1,684.87	1,691.05	0.69676	0.06468	1,729.93

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12337	3.76492	5.43473	0.00803	0.01371	—	0.01371	0.01371	—	0.01371	—	772.404	772.404	0.03133	0.00627	775.054
Demolition	—	—	—	—	—	0.59056	0.59056	—	0.08943	0.08943	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00338	0.10315	0.14890	0.00022	0.00038	—	0.00038	0.00038	—	0.00038	—	21.1617	21.1617	0.00086	0.00017	21.2344
Demolition	—	—	—	—	—	0.01618	0.01618	—	0.00245	0.00245	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00062	0.01882	0.02717	0.00004	0.00007	—	0.00007	0.00007	—	0.00007	—	3.50357	3.50357	0.00014	0.00003	3.51559
Demolition	—	—	—	—	—	0.00295	0.00295	—	0.00045	0.00045	—	—	—	—	—	—
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

3.1.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03526	0.02465	0.40987	0.00000	0.00000	0.08457	0.08457	0.00000	0.01982	0.01982	—	91.3775	91.3775	0.00418	0.00330	92.7618
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
Hauling	0.01080	0.60270	0.23411	0.00319	0.00913	0.12793	0.13705	0.00608	0.03502	0.04111	—	473.844	473.844	0.02419	0.07484	497.688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00094	0.00084	0.00998	0.00000	0.00000	0.00231	0.00231	0.00000	0.00054	0.00054	—	2.38554	2.38554	0.00012	0.00009	2.41900
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
Hauling	0.00029	0.01707	0.00644	0.00009	0.00025	0.00350	0.00375	0.00017	0.00096	0.00112	—	12.9843	12.9843	0.00066	0.00205	13.6230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00017	0.00015	0.00182	0.00000	0.00000	0.00042	0.00042	0.00000	0.00010	0.00010	—	0.39495	0.39495	0.00002	0.00001	0.40049
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
Hauling	0.00005	0.00312	0.00118	0.00002	0.00005	0.00064	0.00068	0.00003	0.00017	0.00021	—	2.14970	2.14970	0.00011	0.00034	2.25544

3.1.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12337	3.76492	5.43473	0.00803	0.01371	—	0.01371	0.01371	—	0.01371	—	772.404	772.404	0.03133	0.00627	775.054

Demolition	—	—	—	—	—	0.59056	0.59056	—	0.08943	0.08943	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00338	0.10315	0.14890	0.00022	0.00038	—	0.00038	0.00038	—	0.00038	—	21.1617	21.1617	0.00086	0.00017	21.2344
Demolition	—	—	—	—	—	0.01618	0.01618	—	0.00245	0.00245	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00062	0.01882	0.02717	0.00004	0.00007	—	0.00007	0.00007	—	0.00007	—	3.50357	3.50357	0.00014	0.00003	3.51559
Demolition	—	—	—	—	—	0.00295	0.00295	—	0.00045	0.00045	—	—	—	—	—	—
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

3.1.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03526	0.02465	0.40987	0.00000	0.00000	0.08457	0.08457	0.00000	0.01982	0.01982	—	91.3775	91.3775	0.00418	0.00330	92.7618
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
Hauling	0.01080	0.60270	0.23411	0.00319	0.00913	0.12793	0.13705	0.00608	0.03502	0.04111	—	473.844	473.844	0.02419	0.07484	497.688

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00094	0.00084	0.00998	0.00000	0.00000	0.00231	0.00231	0.00000	0.00054	0.00054	—	2.38554	2.38554	0.00012	0.00009	2.41900
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
Hauling	0.00029	0.01707	0.00644	0.00009	0.00025	0.00350	0.00375	0.00017	0.00096	0.00112	—	12.9843	12.9843	0.00066	0.00205	13.6230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00017	0.00015	0.00182	0.00000	0.00000	0.00042	0.00042	0.00000	0.00010	0.00010	—	0.39495	0.39495	0.00002	0.00001	0.40049
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
Hauling	0.00005	0.00312	0.00118	0.00002	0.00005	0.00064	0.00068	0.00003	0.00017	0.00021	—	2.14970	2.14970	0.00011	0.00034	2.25544

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35716	2.95838	19.4982	0.03343	0.06757	—	0.06757	0.06757	—	0.06757	—	3,621.78	3,621.78	0.14692	0.02938	3,634.21
Dust From Material Movement	—	—	—	—	—	13.2428	13.2428	—	6.75588	6.75588	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00979	0.08105	0.53420	0.00092	0.00185	—	0.00185	0.00185	—	0.00185	—	99.2269	99.2269	0.00403	0.00081	99.5674
Dust From Material Movement	—	—	—	—	—	0.36282	0.36282	—	0.18509	0.18509	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00179	0.01479	0.09749	0.00017	0.00034	—	0.00034	0.00034	—	0.00034	—	16.4281	16.4281	0.00067	0.00013	16.4845
Dust From Material Movement	—	—	—	—	—	0.06621	0.06621	—	0.03378	0.03378	—	—	—	—	—	—
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

3.2.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05289	0.03697	0.61480	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	137.066	137.066	0.00627	0.00495	139.143
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
Hauling	0.60529	33.7771	13.1204	0.17903	0.51152	7.16941	7.68093	0.34101	1.96286	2.30387	—	26,555.9	26,555.9	1.35552	4.19444	27,892.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00140	0.00126	0.01497	0.00000	0.00000	0.00347	0.00347	0.00000	0.00081	0.00081	—	3.57831	3.57831	0.00018	0.00014	3.62851
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
Hauling	0.01612	0.95670	0.36110	0.00490	0.01401	0.19610	0.21011	0.00934	0.05370	0.06304	—	727.685	727.685	0.03714	0.11492	763.480
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00026	0.00023	0.00273	0.00000	0.00000	0.00063	0.00063	0.00000	0.00015	0.00015	—	0.59243	0.59243	0.00003	0.00002	0.60074
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
Hauling	0.00294	0.17460	0.06590	0.00090	0.00256	0.03579	0.03835	0.00171	0.00980	0.01150	—	120.477	120.477	0.00615	0.01903	126.403

3.2.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35716	2.95838	19.4982	0.03343	0.06757	—	0.06757	0.06757	—	0.06757	—	3,621.78	3,621.78	0.14692	0.02938	3,634.21
Dust From Material Movement	—	—	—	—	—	13.2428	13.2428	—	6.75588	6.75588	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00979	0.08105	0.53420	0.00092	0.00185	—	0.00185	0.00185	—	0.00185	—	99.2269	99.2269	0.00403	0.00081	99.5674
Dust From Material Movement	—	—	—	—	—	0.36282	0.36282	—	0.18509	0.18509	—	—	—	—	—	—

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00179	0.01479	0.09749	0.00017	0.00034	—	0.00034	0.00034	—	0.00034	—	16.4281	16.4281	0.00067	0.00013	16.4845
Dust From Material Movement	—	—	—	—	—	0.06621	0.06621	—	0.03378	0.03378	—	—	—	—	—	—
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

3.2.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05289	0.03697	0.61480	0.00000	0.00000	0.12686	0.12686	0.00000	0.02974	0.02974	—	137.066	137.066	0.00627	0.00495	139.143
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
Hauling	0.60529	33.7771	13.1204	0.17903	0.51152	7.16941	7.68093	0.34101	1.96286	2.30387	—	26,555.9	26,555.9	1.35552	4.19444	27,892.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00140	0.00126	0.01497	0.00000	0.00000	0.00347	0.00347	0.00000	0.00081	0.00081	—	3.57831	3.57831	0.00018	0.00014	3.62851
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
Hauling	0.01612	0.95670	0.36110	0.00490	0.01401	0.19610	0.21011	0.00934	0.05370	0.06304	—	727.685	727.685	0.03714	0.11492	763.480
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00026	0.00023	0.00273	0.00000	0.00000	0.00063	0.00063	0.00000	0.00015	0.00015	—	0.59243	0.59243	0.00003	0.00002	0.60074
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

Hauling	0.00294	0.17460	0.06590	0.00090	0.00256	0.03579	0.03835	0.00171	0.00980	0.01150	—	120.477	120.477	0.00615	0.01903	126.403
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3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63931	4.42560	35.3475	0.06093	0.12400	—	0.12400	0.12400	—	0.12400	—	6,598.08	6,598.08	0.26765	0.05353	6,620.72
Dust From Material Movement	—	—	—	—	—	9.35540	9.35540	—	3.67674	3.67674	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04379	0.30312	2.42106	0.00417	0.00849	—	0.00849	0.00849	—	0.00849	—	451.923	451.923	0.01833	0.00367	453.474
Dust From Material Movement	—	—	—	—	—	0.64078	0.64078	—	0.25183	0.25183	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00799	0.05532	0.44184	0.00076	0.00155	—	0.00155	0.00155	—	0.00155	—	74.8210	74.8210	0.00304	0.00061	75.0778

Dust From Material Movement	—	—	—	—	—	0.11694	0.11694	—	0.04596	0.04596	—	—	—	—	—	—
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

3.3.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07052	0.04929	0.81974	0.00000	0.00000	0.16915	0.16915	0.00000	0.03965	0.03965	—	182.755	182.755	0.00836	0.00660	185.524
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
Hauling	0.66524	37.1225	14.4199	0.19676	0.56218	7.87950	8.44168	0.37479	2.15727	2.53205	—	29,186.1	29,186.1	1.48977	4.60987	30,654.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00468	0.00419	0.04992	0.00000	0.00000	0.01156	0.01156	0.00000	0.00271	0.00271	—	11.9277	11.9277	0.00060	0.00045	12.0950
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
Hauling	0.04428	2.62863	0.99216	0.01348	0.03851	0.53879	0.57730	0.02567	0.14753	0.17320	—	1,999.39	1,999.39	0.10204	0.31574	2,097.74
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00085	0.00076	0.00911	0.00000	0.00000	0.00211	0.00211	0.00000	0.00049	0.00049	—	1.97477	1.97477	0.00010	0.00007	2.00247
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
Hauling	0.00808	0.47973	0.18107	0.00246	0.00703	0.09833	0.10536	0.00468	0.02692	0.03161	—	331.022	331.022	0.01689	0.05228	347.305

3.3.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63931	4.42560	35.3475	0.06093	0.12400	—	0.12400	0.12400	—	0.12400	—	6,598.08	6,598.08	0.26765	0.05353	6,620.72
Dust From Material Movement	—	—	—	—	—	9.35540	9.35540	—	3.67674	3.67674	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04379	0.30312	2.42106	0.00417	0.00849	—	0.00849	0.00849	—	0.00849	—	451.923	451.923	0.01833	0.00367	453.474
Dust From Material Movement	—	—	—	—	—	0.64078	0.64078	—	0.25183	0.25183	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00799	0.05532	0.44184	0.00076	0.00155	—	0.00155	0.00155	—	0.00155	—	74.8210	74.8210	0.00304	0.00061	75.0778
Dust From Material Movement	—	—	—	—	—	0.11694	0.11694	—	0.04596	0.04596	—	—	—	—	—	—
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

3.3.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07052	0.04929	0.81974	0.00000	0.00000	0.16915	0.16915	0.00000	0.03965	0.03965	—	182.755	182.755	0.00836	0.00660	185.524
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
Hauling	0.66524	37.1225	14.4199	0.19676	0.56218	7.87950	8.44168	0.37479	2.15727	2.53205	—	29,186.1	29,186.1	1.48977	4.60987	30,654.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00468	0.00419	0.04992	0.00000	0.00000	0.01156	0.01156	0.00000	0.00271	0.00271	—	11.9277	11.9277	0.00060	0.00045	12.0950
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
Hauling	0.04428	2.62863	0.99216	0.01348	0.03851	0.53879	0.57730	0.02567	0.14753	0.17320	—	1,999.39	1,999.39	0.10204	0.31574	2,097.74
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00085	0.00076	0.00911	0.00000	0.00000	0.00211	0.00211	0.00000	0.00049	0.00049	—	1.97477	1.97477	0.00010	0.00007	2.00247
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
Hauling	0.00808	0.47973	0.18107	0.00246	0.00703	0.09833	0.10536	0.00468	0.02692	0.03161	—	331.022	331.022	0.01689	0.05228	347.305

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

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

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

Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06111	0.61288	4.19118	0.00630	0.01119	—	0.01119	0.01119	—	0.01119	—	633.858	633.858	0.02571	0.00514	636.033
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01115	0.11185	0.76489	0.00115	0.00204	—	0.00204	0.00204	—	0.00204	—	104.942	104.942	0.00426	0.00085	105.303
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

3.4.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11171	0.07808	1.29846	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	289.484	289.484	0.01325	0.01046	293.869
Vendor	0.00793	0.28542	0.13469	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	226.172	226.172	0.00861	0.03172	236.346
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10891	0.09759	1.14049	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	273.399	273.399	0.01465	0.01115	277.113
Vendor	0.00731	0.29569	0.13684	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	226.323	226.323	0.00882	0.03172	236.011
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03833	0.03432	0.40889	0.00000	0.00000	0.09469	0.09469	0.00000	0.02219	0.02219	—	97.7062	97.7062	0.00494	0.00370	99.0769
Vendor	0.00266	0.10393	0.04837	0.00056	0.00112	0.02129	0.02241	0.00112	0.00588	0.00700	—	80.1341	80.1341	0.00312	0.01124	83.6382
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00700	0.00626	0.07462	0.00000	0.00000	0.01728	0.01728	0.00000	0.00405	0.00405	—	16.1764	16.1764	0.00082	0.00061	16.4033
Vendor	0.00049	0.01897	0.00883	0.00010	0.00020	0.00388	0.00409	0.00020	0.00107	0.00128	—	13.2671	13.2671	0.00052	0.00186	13.8473
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

3.4.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.51	1,789.51	0.07259	0.01452	1,795.65

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06111	0.61288	4.19118	0.00630	0.01119	—	0.01119	0.01119	—	0.01119	—	633.858	633.858	0.02571	0.00514	636.033
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01115	0.11185	0.76489	0.00115	0.00204	—	0.00204	0.00204	—	0.00204	—	104.942	104.942	0.00426	0.00085	105.303
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

3.4.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11171	0.07808	1.29846	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	289.484	289.484	0.01325	0.01046	293.869
Vendor	0.00793	0.28542	0.13469	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	226.172	226.172	0.00861	0.03172	236.346
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10891	0.09759	1.14049	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	273.399	273.399	0.01465	0.01115	277.113
Vendor	0.00731	0.29569	0.13684	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	226.323	226.323	0.00882	0.03172	236.011
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03833	0.03432	0.40889	0.00000	0.00000	0.09469	0.09469	0.00000	0.02219	0.02219	—	97.7062	97.7062	0.00494	0.00370	99.0769

Vendor	0.00266	0.10393	0.04837	0.00056	0.00112	0.02129	0.02241	0.00112	0.00588	0.00700	—	80.1341	80.1341	0.00312	0.01124	83.6382
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00700	0.00626	0.07462	0.00000	0.00000	0.01728	0.01728	0.00000	0.00405	0.00405	—	16.1764	16.1764	0.00082	0.00061	16.4033
Vendor	0.00049	0.01897	0.00883	0.00010	0.00020	0.00388	0.00409	0.00020	0.00107	0.00128	—	13.2671	13.2671	0.00052	0.00186	13.8473
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

3.5. Building Construction (2028)

3.5.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07597	0.76186	5.21003	0.00783	0.01391	—	0.01391	0.01391	—	0.01391	—	787.863	787.863	0.03196	0.00639	790.566
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01386	0.13904	0.95083	0.00143	0.00254	—	0.00254	0.00254	—	0.00254	—	130.440	130.440	0.00529	0.00106	130.887
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

3.5.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10821	0.07738	1.22807	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	284.332	284.332	0.00489	0.01046	288.420
Vendor	0.00773	0.27090	0.12912	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	220.490	220.490	0.00840	0.03172	230.604
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10682	0.08853	1.07496	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	268.549	268.549	0.00559	0.01046	271.826
Vendor	0.00731	0.28137	0.13285	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	220.651	220.651	0.00840	0.03172	230.326
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04642	0.03867	0.47974	0.00000	0.00000	0.11771	0.11771	0.00000	0.02759	0.02759	—	119.301	119.301	0.00246	0.00460	120.896
Vendor	0.00322	0.12289	0.05767	0.00070	0.00139	0.02646	0.02785	0.00139	0.00731	0.00871	—	97.1147	97.1147	0.00370	0.01397	101.456
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00847	0.00706	0.08755	0.00000	0.00000	0.02148	0.02148	0.00000	0.00503	0.00503	—	19.7517	19.7517	0.00041	0.00076	20.0158
Vendor	0.00059	0.02243	0.01053	0.00013	0.00025	0.00483	0.00508	0.00025	0.00133	0.00159	—	16.0785	16.0785	0.00061	0.00231	16.7971
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

3.5.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17253	1.73028	11.8326	0.01779	0.03159	—	0.03159	0.03159	—	0.03159	—	1,789.32	1,789.32	0.07258	0.01452	1,795.46
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07597	0.76186	5.21003	0.00783	0.01391	—	0.01391	0.01391	—	0.01391	—	787.863	787.863	0.03196	0.00639	790.566
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01386	0.13904	0.95083	0.00143	0.00254	—	0.00254	0.00254	—	0.00254	—	130.440	130.440	0.00529	0.00106	130.887
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

3.5.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10821	0.07738	1.22807	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	284.332	284.332	0.00489	0.01046	288.420
Vendor	0.00773	0.27090	0.12912	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	220.490	220.490	0.00840	0.03172	230.604
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10682	0.08853	1.07496	0.00000	0.00000	0.26793	0.26793	0.00000	0.06280	0.06280	—	268.549	268.549	0.00559	0.01046	271.826
Vendor	0.00731	0.28137	0.13285	0.00158	0.00316	0.06021	0.06337	0.00316	0.01663	0.01980	—	220.651	220.651	0.00840	0.03172	230.326
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04642	0.03867	0.47974	0.00000	0.00000	0.11771	0.11771	0.00000	0.02759	0.02759	—	119.301	119.301	0.00246	0.00460	120.896
Vendor	0.00322	0.12289	0.05767	0.00070	0.00139	0.02646	0.02785	0.00139	0.00731	0.00871	—	97.1147	97.1147	0.00370	0.01397	101.456
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00847	0.00706	0.08755	0.00000	0.00000	0.02148	0.02148	0.00000	0.00503	0.00503	—	19.7517	19.7517	0.00041	0.00076	20.0158
Vendor	0.00059	0.02243	0.01053	0.00013	0.00025	0.00483	0.00508	0.00025	0.00133	0.00159	—	16.0785	16.0785	0.00061	0.00231	16.7971
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

3.6. Paving (2028)

3.6.1. Onsite - Unmitigated

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

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

Off-Road Equipment	0.15994	1.93286	10.6002	0.01395	0.02813	—	0.02813	0.02813	—	0.02813	—	1,511.03	1,511.03	0.06129	0.01226	1,516.22
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00876	0.10591	0.58083	0.00076	0.00154	—	0.00154	0.00154	—	0.00154	—	82.7962	82.7962	0.00336	0.00067	83.0803
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00160	0.01933	0.10600	0.00014	0.00028	—	0.00028	0.00028	—	0.00028	—	13.7079	13.7079	0.00056	0.00011	13.7549
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00274	0.00228	0.02827	0.00000	0.00000	0.00694	0.00694	0.00000	0.00163	0.00163	—	7.02954	7.02954	0.00014	0.00027	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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00050	0.00042	0.00516	0.00000	0.00000	0.00127	0.00127	0.00000	0.00030	0.00030	—	1.16382	1.16382	0.00002	0.00004	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
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

3.6.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15994	1.93286	10.6002	0.01395	0.02813	—	0.02813	0.02813	—	0.02813	—	1,511.03	1,511.03	0.06129	0.01226	1,516.22
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00876	0.10591	0.58083	0.00076	0.00154	—	0.00154	0.00154	—	0.00154	—	82.7962	82.7962	0.00336	0.00067	83.0803
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00160	0.01933	0.10600	0.00014	0.00028	—	0.00028	0.00028	—	0.00028	—	13.7079	13.7079	0.00056	0.00011	13.7549
Paving	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00274	0.00228	0.02827	0.00000	0.00000	0.00694	0.00694	0.00000	0.00163	0.00163	—	7.02954	7.02954	0.00014	0.00027	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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00050	0.00042	0.00516	0.00000	0.00000	0.00127	0.00127	0.00000	0.00030	0.00030	—	1.16382	1.16382	0.00002	0.00004	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
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

3.7. Architectural Coating (2028)

3.7.1. Onsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.517	133.517	0.00542	0.00108	133.975
Architect ural Coatings	36.5968	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.517	133.517	0.00542	0.00108	133.975
Architect ural Coatings	36.5968	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00261	0.07965	0.11875	0.00021	0.00029	—	0.00029	0.00029	—	0.00029	—	16.4610	16.4610	0.00067	0.00013	16.5175
Architect ural Coatings	4.51194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00048	0.01454	0.02167	0.00004	0.00005	—	0.00005	0.00005	—	0.00005	—	2.72531	2.72531	0.00011	0.00002	2.73466
Architect ural Coatings	0.82343	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

3.7.2. Offsite - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02164	0.01548	0.24561	0.00000	0.00000	0.05359	0.05359	0.00000	0.01256	0.01256	—	56.8664	56.8664	0.00098	0.00209	57.6839
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02136	0.01771	0.21499	0.00000	0.00000	0.05359	0.05359	0.00000	0.01256	0.01256	—	53.7098	53.7098	0.00112	0.00209	54.3652
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00260	0.00217	0.02687	0.00000	0.00000	0.00659	0.00659	0.00000	0.00154	0.00154	—	6.68088	6.68088	0.00014	0.00026	6.77020
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00047	0.00040	0.00490	0.00000	0.00000	0.00120	0.00120	0.00000	0.00028	0.00028	—	1.10610	1.10610	0.00002	0.00004	1.12088

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
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

3.7.3. Onsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.517	133.517	0.00542	0.00108	133.975
Architectural Coatings	36.5968	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02114	0.64604	0.96319	0.00173	0.00235	—	0.00235	0.00235	—	0.00235	—	133.517	133.517	0.00542	0.00108	133.975
Architectural Coatings	36.5968	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00261	0.07965	0.11875	0.00021	0.00029	—	0.00029	0.00029	—	0.00029	—	16.4610	16.4610	0.00067	0.00013	16.5175
Architectural Coatings	4.51194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00048	0.01454	0.02167	0.00004	0.00005	—	0.00005	0.00005	—	0.00005	—	2.72531	2.72531	0.00011	0.00002	2.73466
Architectural Coatings	0.82343	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

3.7.4. Offsite - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02164	0.01548	0.24561	0.00000	0.00000	0.05359	0.05359	0.00000	0.01256	0.01256	—	56.8664	56.8664	0.00098	0.00209	57.6839
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02136	0.01771	0.21499	0.00000	0.00000	0.05359	0.05359	0.00000	0.01256	0.01256	—	53.7098	53.7098	0.00112	0.00209	54.3652
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00260	0.00217	0.02687	0.00000	0.00000	0.00659	0.00659	0.00000	0.00154	0.00154	—	6.68088	6.68088	0.00014	0.00026	6.77020
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00047	0.00040	0.00490	0.00000	0.00000	0.00120	0.00120	0.00000	0.00028	0.00028	—	1.10610	1.10610	0.00002	0.00004	1.12088
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
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Total	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Total	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90
Total	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Total	3.74432	3.23945	37.3487	0.10296	0.06952	9.59808	9.66760	0.06500	2.43432	2.49933	—	10,488.1	10,488.1	0.38961	0.35233	10,629.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Total	3.68838	3.55175	34.0575	0.09830	0.06953	9.59808	9.66761	0.06502	2.43432	2.49934	—	10,016.4	10,016.4	0.40342	0.37208	10,138.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90
Total	0.66569	0.64085	6.26147	0.01807	0.01269	1.74782	1.76051	0.01186	0.44331	0.45517	—	1,670.18	1,670.18	0.06609	0.06108	1,691.90

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	66.7752	66.7752	0.04886	0.00592	69.7617
Total	—	—	—	—	—	—	—	—	—	—	—	66.7752	66.7752	0.04886	0.00592	69.7617

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	66.7752	66.7752	0.04886	0.00592	69.7617
Total	—	—	—	—	—	—	—	—	—	—	—	66.7752	66.7752	0.04886	0.00592	69.7617
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11.0554	11.0554	0.00809	0.00098	11.5498
Total	—	—	—	—	—	—	—	—	—	—	—	11.0554	11.0554	0.00809	0.00098	11.5498

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	67.1738	67.1738	0.04915	0.00596	70.1781
Total	—	—	—	—	—	—	—	—	—	—	—	67.1738	67.1738	0.04915	0.00596	70.1781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	67.1738	67.1738	0.04915	0.00596	70.1781
Total	—	—	—	—	—	—	—	—	—	—	—	67.1738	67.1738	0.04915	0.00596	70.1781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	11.1214	11.1214	0.00814	0.00099	11.6188

Total	—	—	—	—	—	—	—	—	—	—	—	11.1214	11.1214	0.00814	0.00099	11.6188
-------	---	---	---	---	---	---	---	---	---	---	---	---------	---------	---------	---------	---------

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	804.255	804.255	0.07118	0.00151	806.485
Total	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	804.255	804.255	0.07118	0.00151	806.485
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	804.255	804.255	0.07118	0.00151	806.485
Total	0.03707	0.63361	0.26962	0.00404	0.05123	—	0.05123	0.05123	—	0.05123	—	804.255	804.255	0.07118	0.00151	806.485
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00677	0.11563	0.04921	0.00074	0.00935	—	0.00935	0.00935	—	0.00935	—	133.154	133.154	0.01178	0.00025	133.523
Total	0.00677	0.11563	0.04921	0.00074	0.00935	—	0.00935	0.00935	—	0.00935	—	133.154	133.154	0.01178	0.00025	133.523

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	5.63068	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.45119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap e Equipme	0.43312	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	—	13.3485	13.3485	0.00056	0.00011	13.3954
Total	6.51500	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	0.00000	13.3485	13.3485	0.00056	0.00011	13.3954
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
Consume r Products	5.63068	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.45119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	6.08188	0.00000	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
Consume r Products	1.02760	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.08234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	0.03898	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	—	1.08986	1.08986	0.00005	0.00001	1.09369
Total	1.14892	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	0.00000	1.08986	1.08986	0.00005	0.00001	1.09369

4.3.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	5.63068	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.45119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	0.43312	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	—	13.3485	13.3485	0.00056	0.00011	13.3954
Total	6.51500	0.04692	5.00578	0.00022	0.00230	—	0.00230	0.00174	—	0.00174	0.00000	13.3485	13.3485	0.00056	0.00011	13.3954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	5.63068	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.45119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	6.08188	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Consumer Products	1.02760	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap e Equipme	0.03898	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	—	1.08986	1.08986	0.00005	0.00001	1.09369
Total	1.14892	0.00422	0.45052	0.00002	0.00021	—	0.00021	0.00016	—	0.00016	0.00000	1.08986	1.08986	0.00005	0.00001	1.09369

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Total	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Total	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233
Total	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
----------	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Total	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Total	—	—	—	—	—	—	—	—	—	—	5.92445	14.9449	20.8693	0.61842	0.01576	41.0261
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233
Total	—	—	—	—	—	—	—	—	—	—	0.98086	2.47430	3.45516	0.10239	0.00261	6.79233

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Total	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Total	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062
Total	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Total	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Total	—	—	—	—	—	—	—	—	—	—	31.4310	0.00000	31.4310	3.14142	0.00000	109.967
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062

Total	—	—	—	—	—	—	—	—	—	—	5.20377	0.00000	5.20377	0.52010	0.00000	18.2062
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4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199

4.6.2. Mitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31199

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequeste red	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
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Demolition	Demolition	5/1/2027	5/15/2027	5.00000	10.00000	—
Site Preparation	Site Preparation	5/16/2027	5/29/2027	5.00000	10.00000	—
Grading	Grading	5/30/2027	7/3/2027	5.00000	25.0000	—
Building Construction	Building Construction	7/4/2027	8/12/2028	5.00000	290.000	—
Paving	Paving	8/13/2028	9/9/2028	5.00000	20.0000	—
Architectural Coating	Architectural Coating	9/2/2028	11/3/2028	5.00000	45.0000	—

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	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.000000	8.00000	33.0000	0.73000
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000
Site Preparation	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Tier 4 Final	1.000000	8.00000	148.000	0.41000
Grading	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000
Grading	Scrapers	Diesel	Tier 4 Final	2.00000	8.00000	423.000	0.48000
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	8.00000	367.000	0.40000
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.000000	8.00000	14.0000	0.74000
Building Construction	Welders	Diesel	Tier 4 Final	1.000000	8.00000	46.0000	0.45000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00000	7.00000	84.0000	0.37000
Building Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00000	8.00000	96.0000	0.40000

Paving	Pavers	Diesel	Tier 4 Final	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.000000	6.00000	37.0000	0.48000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.000000	8.00000	33.0000	0.73000
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.000000	8.00000	71.0000	0.37000
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000
Site Preparation	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Tier 4 Final	1.000000	8.00000	148.000	0.41000
Grading	Excavators	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00000	8.00000	84.0000	0.37000
Grading	Scrapers	Diesel	Tier 4 Final	2.00000	8.00000	423.000	0.48000
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	8.00000	367.000	0.40000
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.000000	8.00000	14.0000	0.74000
Building Construction	Welders	Diesel	Tier 4 Final	1.000000	8.00000	46.0000	0.45000
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00000	7.00000	84.0000	0.37000
Building Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00000	8.00000	96.0000	0.40000
Paving	Pavers	Diesel	Tier 4 Final	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Tier 4 Final	2.00000	8.00000	36.0000	0.38000

Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.000000	6.00000	37.0000	0.48000
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5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	10.00000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	6.90000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	15.0000	11.9700	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	386.700	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	425.000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	31.6800	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	9.40720	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	6.33600	11.9700	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63000	HHDT,MHDT

Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	10.00000	11.9700	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63000	HHDT,MHDT
Demolition	Hauling	6.90000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	15.0000	11.9700	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63000	HHDT,MHDT
Site Preparation	Hauling	386.700	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	425.000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	31.6800	11.9700	LDA,LDT1,LDT2
Building Construction	Vendor	9.40720	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	6.33600	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
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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	532,810	177,603	0.00000	0.00000	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	6,000.00	0.00000
Site Preparation	—	30,931.0	10.00000	0.00000	0.00000
Grading	—	85,000.0	75.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	0.96970

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Single Family Housing	0.96970	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	45.0990	0.03300	0.00400
2028	0.00000	45.0990	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
Single Family Housing	897.000	897.000	897.000	327,405	13,591.3	13,591.3	13,591.3	4,960,807

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	897.000	897.000	897.000	327,405	13,591.3	13,591.3	13,591.3	4,960,807

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	0	0
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	88	88
Single Family Housing	Conventional Wood Stoves	0	0

Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	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)
532,810	177,603	0.00000	0.00000	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Single Family Housing	540,432	45.0990	0.0330	0.0040	2,509,490

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	543,658	45.0990	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,091,711	18,826,393

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,091,711	18,826,393

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	58.3202	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	58.3202	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
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	22.9900	annual days of extreme heat
Extreme Precipitation	6.25000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	20.1000	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	72.8314
AQ-PM	8.15184

AQ-DPM	9.85688
Drinking Water	9.19196
Lead Risk Housing	51.3926
Pesticides	41.2069
Toxic Releases	7.55189
Traffic	8.48750
Effect Indicators	—
CleanUp Sites	0.00000
Groundwater	22.1152
Haz Waste Facilities/Generators	4.93713
Impaired Water Bodies	0.00000
Solid Waste	66.6896
Sensitive Population	—
Asthma	17.3106
Cardio-vascular	48.4796
Low Birth Weights	11.0726
Socioeconomic Factor Indicators	—
Education	44.9380
Housing	12.7883
Linguistic	35.9995
Poverty	29.2085
Unemployment	39.2113

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	51.0714744

Employed	48.29975619
Median HI	51.44360323
Education	—
Bachelor's or higher	16.10419607
High school enrollment	100
Preschool enrollment	28.28179135
Transportation	—
Auto Access	89.83703323
Active commuting	4.170409342
Social	—
2-parent households	44.65546003
Voting	78.77582446
Neighborhood	—
Alcohol availability	66.49557295
Park access	29.59065828
Retail density	18.01616836
Supermarket access	43.71872193
Tree canopy	7.943025792
Housing	—
Homeownership	66.29026049
Housing habitability	15.28294623
Low-inc homeowner severe housing cost burden	20.33876556
Low-inc renter severe housing cost burden	31.97741563
Uncrowded housing	14.5515206
Health Outcomes	—
Insured adults	14.0639035
Arthritis	0.0
Asthma ER Admissions	83.2

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	21.2
Cognitively Disabled	46.5
Physically Disabled	59.0
Heart Attack ER Admissions	59.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	79.9
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	19.6
SLR Inundation Area	0.0
Children	86.0
Elderly	81.9
English Speaking	41.6
Foreign-born	36.9
Outdoor Workers	10.9

Climate Change Adaptive Capacity	—
Impervious Surface Cover	91.5
Traffic Density	5.3
Traffic Access	23.0
Other Indices	—
Hardship	62.3
Other Decision Support	—
2016 Voting	81.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.00000
Healthy Places Index Score for Project Location (b)	44.0000
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 Healthy 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	19.65 acres
Construction: Construction Phases	Proposed Schedule
Construction: Off-Road Equipment	Construction Equipment
Operations: Vehicle Data	Updated trips per traffic equation $\ln(T) = 0.92 \ln(88) + 2.68$: $T = T = e^{6.798}$
Operations: Hearths	no hearths included

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	28.5714	19.6500
Building Area	sq. ft	171,600	263,116

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	5/29/2027	5/15/2027
Demolition	Demolition	Work Days per Phase	20.0000	10.00000
Site Preparation	Site Preparation	Start Date	5/30/2027	5/16/2027
Site Preparation	Site Preparation	End Date	6/13/2027	5/29/2027
Grading	Grading	Start Date	6/14/2027	5/30/2027
Grading	Grading	End Date	7/26/2027	7/3/2027
Grading	Grading	Work Days per Phase	30.0000	25.0000
Building Construction	Building Construction	Start Date	7/27/2027	7/4/2027
Building Construction	Building Construction	End Date	9/19/2028	8/12/2028
Building Construction	Building Construction	Work Days per Phase	300.000	290.000

Paving	Paving	Start Date	9/20/2028	8/13/2028
Paving	Paving	End Date	10/18/2028	9/9/2028
Architectural Coating	Architectural Coating	Start Date	10/19/2028	9/2/2028
Architectural Coating	Architectural Coating	End Date	11/16/2028	11/3/2028
Architectural Coating	Architectural Coating	Work Days per Phase	20.0000	45.0000

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Excavators	Engine Tier	Average	Tier 4 Final
Demolition	Excavators	Number per Day	3.00000	2.00000
Demolition	Concrete/Industrial Saws	Engine Tier	Average	Tier 4 Final
Site Preparation	Rubber Tired Dozers	Engine Tier	Average	Tier 4 Final
Site Preparation	Rubber Tired Dozers	Number per Day	3.00000	2.00000
Site Preparation	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Site Preparation	Tractors/Loaders/Backhoes	Number per Day	4.00000	2.00000
Grading	Graders	Engine Tier	Average	Tier 4 Final
Grading	Excavators	Engine Tier	Average	Tier 4 Final
Grading	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Grading	Scrapers	Engine Tier	Average	Tier 4 Final
Grading	Rubber Tired Dozers	Engine Tier	Average	Tier 4 Final
Building Construction	Generator Sets	Engine Tier	Average	Tier 4 Final
Building Construction	Welders	Engine Tier	Average	Tier 4 Final
Building Construction	Tractors/Loaders/Backhoes	Engine Tier	Average	Tier 4 Final
Paving	Pavers	Engine Tier	Average	Tier 4 Final
Paving	Paving Equipment	Engine Tier	Average	Tier 4 Final
Paving	Rollers	Engine Tier	Average	Tier 4 Final
Architectural Coating	Air Compressors	Engine Tier	Average	Tier 4 Final

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Single Family Housing	Weekday Trip Rate	size/day	9.44000	10.1932
Single Family Housing	Saturday Trip Rate	size/day	9.54000	10.1932
Single Family Housing	Sunday Trip Rate	size/day	8.55000	10.1932

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Single Family Housing	Wood Fireplaces	31	0
Single Family Housing	Gas Fireplaces	48	0
Single Family Housing	No Fireplaces	9	88
Single Family Housing	Catalytic Wood Stoves	4	0
Single Family Housing	Non-Catalytic Wood Stoves	4	0

ATTACHMENT B

AERSCREEN for DPM PM₁₀

AERSCREEN 21112 / AERMOD 22112

03/27/26

05:03:44

TITLE: RAMONA 9TH STREET RESIDENTIAL

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

SOURCE EMISSION RATE: 0.130E-03 g/s 0.103E-02 lb/hr
AREA EMISSION RATE: 0.192E-08 g/(s-m2) 0.153E-07 lb/(hr-m2)
AREA HEIGHT: 3.00 meters 9.84 feet
AREA SOURCE LONG SIDE: 259.58 meters 851.63 feet
AREA SOURCE SHORT SIDE: 259.58 meters 851.63 feet
INITIAL VERTICAL DIMENSION: 1.20 meters 3.94 feet
RURAL OR URBAN: RURAL
FLAGPOLE RECEPTOR HEIGHT: 1.50 meters 4.92 feet
INITIAL PROBE DISTANCE = 5000. meters 16404. feet

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

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

***** FLOW SECTOR ANALYSIS *****
25 meter receptor spacing: 1. meters - 5000. meters

MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	0.001	0.3734	45	200.0	WIN

* = worst case diagonal

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

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

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

ALBEDO: 0.60
BOWEN RATIO: 1.50
ROUGHNESS LENGTH: 0.001 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

10 01 25 25 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-0.03	0.011	-9.000	0.020	-999.	3.	3.0	0.001	1.50	0.60	0.50		

HT	REF	TA	HT
10.0	250.0	2.0	

***** AERSCREEN AUTOMATED DISTANCES *****
OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.1872	2524.99	0.1435
25.00	0.2123	2550.00	0.1425
50.01	0.2385	2575.00	0.1415
75.00	0.2645	2600.00	0.1406
100.00	0.2905	2625.01	0.1396
125.00	0.3162	2650.00	0.1386
150.01	0.3419	2675.00	0.1377
174.99	0.3673	2700.00	0.1368
200.00	0.3734	2725.01	0.1358
225.00	0.3678	2749.99	0.1349
250.00	0.3622	2775.00	0.1340
274.99	0.3566	2800.00	0.1332
300.00	0.3509	2825.00	0.1323
325.00	0.3453	2849.99	0.1314
350.00	0.3396	2875.00	0.1305
375.01	0.3340	2900.00	0.1297
400.00	0.3285	2925.00	0.1288
425.00	0.3230	2950.01	0.1280
450.00	0.3175	2975.00	0.1271
475.01	0.3122	3000.00	0.1263
500.00	0.3070	3025.00	0.1255
525.00	0.3018	3050.01	0.1247
550.00	0.2970	3075.00	0.1239
575.01	0.2926	3100.00	0.1232
599.99	0.2884	3125.00	0.1224
625.00	0.2842	3150.00	0.1216
650.00	0.2801	3174.99	0.1209
675.00	0.2763	3200.00	0.1201
699.99	0.2721	3225.00	0.1194
725.00	0.2680	3250.00	0.1186
750.00	0.2641	3274.99	0.1179
775.00	0.2602	3300.00	0.1172
800.01	0.2564	3325.00	0.1164
825.00	0.2528	3350.00	0.1157
850.00	0.2493	3375.00	0.1150
875.00	0.2458	3400.00	0.1143
900.01	0.2425	3425.00	0.1137
924.99	0.2392	3450.00	0.1130

950.00	0.2360	3475.01	0.1123
975.00	0.2339	3499.99	0.1117
1000.00	0.2318	3525.00	0.1110
1024.99	0.2297	3550.00	0.1104
1050.00	0.2276	3575.00	0.1097
1075.00	0.2256	3599.99	0.1091
1100.00	0.2236	3625.00	0.1084
1125.01	0.2217	3650.00	0.1078
1150.00	0.2197	3675.00	0.1072
1175.00	0.2178	3699.99	0.1066
1200.00	0.2159	3725.00	0.1059
1225.01	0.2140	3750.00	0.1053
1250.00	0.2122	3775.00	0.1047
1275.00	0.2103	3800.00	0.1041
1300.00	0.2085	3825.00	0.1035
1325.01	0.2067	3850.00	0.1030
1349.99	0.2050	3875.00	0.1024
1375.00	0.2032	3900.00	0.1018
1400.00	0.2015	3925.00	0.1013
1425.00	0.1999	3950.00	0.1007
1449.99	0.1982	3975.00	0.1001
1475.00	0.1966	4000.00	0.9960E-01
1500.00	0.1951	4024.99	0.9907E-01
1525.00	0.1935	4050.00	0.9854E-01
1550.01	0.1920	4075.00	0.9801E-01
1575.00	0.1905	4100.00	0.9749E-01
1600.00	0.1890	4125.01	0.9696E-01
1625.00	0.1875	4150.00	0.9644E-01
1650.01	0.1860	4175.00	0.9592E-01
1674.99	0.1846	4200.00	0.9541E-01
1700.00	0.1831	4225.01	0.9490E-01
1725.00	0.1817	4250.00	0.9439E-01
1750.00	0.1803	4275.00	0.9389E-01
1774.99	0.1789	4300.00	0.9341E-01
1800.00	0.1776	4325.00	0.9292E-01
1825.00	0.1762	4350.00	0.9244E-01
1850.00	0.1749	4375.00	0.9196E-01
1875.01	0.1735	4400.00	0.9148E-01
1900.00	0.1722	4425.00	0.9101E-01
1925.00	0.1709	4450.01	0.9054E-01
1950.00	0.1696	4475.00	0.9008E-01
1975.01	0.1683	4500.00	0.8963E-01
1999.99	0.1671	4525.00	0.8918E-01
2025.00	0.1658	4550.00	0.8873E-01
2050.00	0.1646	4575.00	0.8829E-01
2075.00	0.1634	4599.99	0.8785E-01
2099.99	0.1622	4625.00	0.8741E-01
2125.00	0.1610	4650.00	0.8698E-01
2150.00	0.1598	4674.99	0.8656E-01
2175.00	0.1586	4700.00	0.8614E-01
2199.99	0.1575	4725.00	0.8572E-01
2225.00	0.1563	4750.00	0.8531E-01
2250.00	0.1552	4774.99	0.8490E-01
2275.00	0.1541	4800.00	0.8449E-01
2300.01	0.1530	4825.00	0.8408E-01
2325.00	0.1519	4850.00	0.8367E-01
2350.00	0.1508	4875.01	0.8326E-01
2375.00	0.1497	4900.00	0.8286E-01
2400.01	0.1486	4925.00	0.8246E-01
2424.99	0.1476	4950.00	0.8207E-01
2450.00	0.1466	4975.00	0.8168E-01
2475.00	0.1455	5000.00	0.8130E-01
2500.00	0.1445		

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

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

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.3762	0.3762	0.3762	0.3762	N/A
DISTANCE FROM SOURCE	184.00 meters				
IMPACT AT THE AMBIENT BOUNDARY	0.1872	0.1872	0.1872	0.1872	N/A
DISTANCE FROM SOURCE	1.00 meters				

ATTACHMENT C

Health Risk Calculations

Air Quality Health Risk Calculations (Worst-Case) 9th Street Residential (Tier 4 Final)						
From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.006818				
	Construction Start	5/1/2027				
	Construction Complete	11/3/2028				
	Days	552				
	Construction Emission per day (lb/day)	0.024702899				
	Annual Duration (Days)	365				
Used as an input to AERSCREEN	Annualized Emission Rate (Grams/Second)	0.000129519				
	Project Site Size (Acres)	16.65				
	Project Site Size (meters^2)	67380.15943				
	Length of Smalles Side (meters)	259.5768854				
	Concentration Hourly From AERSCREEN (Ug/M^3)	1.92E-09				
From AERSCREEN Hourly * 0.1 to convert to annual	Concentration Annual (Ug/M^3)	0.03734				
Duration	Days	552	Days to years	1.512328767		
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.03734	0.03734	0.03734	0.03734	0.03734	0.03734
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00001294	0.00003907	0.00003086	0.00002671	0.00001201	0.00001040
Construction Days	552	1.512328767				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.512328767	1.512328767	1.512328767	1.512328767	1.512328767
AT	70	70	70	70	70	70
FAH	1	1	1	0.72	0.73	0.73
Risk for Each Age Group	5.08379E-07	9.28566E-06	2.20045E-06	1.37087E-06	2.08331E-07	1.80346E-07
Risk per million Exposed	0.508378766	9.28566268	2.200446486	1.370870494	0.208331083	0.180346311
Cancer Risk Per Million Construction Duration	9.79					