



ATTACHMENT D

ENVIRONMENTAL IMPACT REPORT

APPENDIX C

AIR QUALITY

AIR QUALITY ASSESSMENT

Capalina Apartments Residential Development
GPA22-0003
R22-0003
SDP22-0007
City of San Marcos, CA

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LIST OF COMMON ACRONYMS

Air Quality Impact Assessments (AQIA)
Assembly Bill 32 (AB32)
California Air Resource Board (CARB)
California Ambient Air Quality Standards (CAAQS)
California Environmental Quality Act (CEQA)
Carbon Dioxide (CO₂)
Cubic Yards (CY)
Diesel Particulate Matter (DPM)
Environmental Protection Agency (EPA)
EPA Office of Air Quality Planning and Standards (OAQPS)
Hazardous Air Pollutants (HAPs)
Hydrogen Sulfide (H₂S)
International Residential Code (IRC)
Level of Service (LOS)
Low Carbon Fuel Standard (LCFS)
Methane (CH₄)
National ambient air quality standards (NAAQS)
Nitrous Oxide (N₂O)
Reactive Organic Gas (ROG)
Regional Air Quality Strategy (RAQS)
San Diego Air Basin (SDAB)
San Diego Air Pollution Control District (SDAPCD)
South Coast Air Quality Management District (SCAQMD)
Specific Plan Area (SPA)
State Implementation Plan (SIP)
Toxic Air Contaminants (TACs)
Vehicle Miles Traveled (VMT)

1.0 INTRODUCTION

1.1 Project Description

The project proposes up to 119 multi-family residential units within two four-story buildings situated on approximately 2.51 gross acres. The project would also include 4,000 Square Foot (SF) of commercial use. Additionally, the Project proposes as many as 147 outdoor parking spaces of which 8 will be equipped with Electric Vehicle (EV) chargers and 15 will be EV capable. The project seeks a General Plan Amendment (GPA) and rezone of the property from Mixed Use (MU-3) to Mixed Use (MU-2). Construction would be expected to last less than one year and full operations are expected in 2025. The project development plan is shown on Figure 1-A.

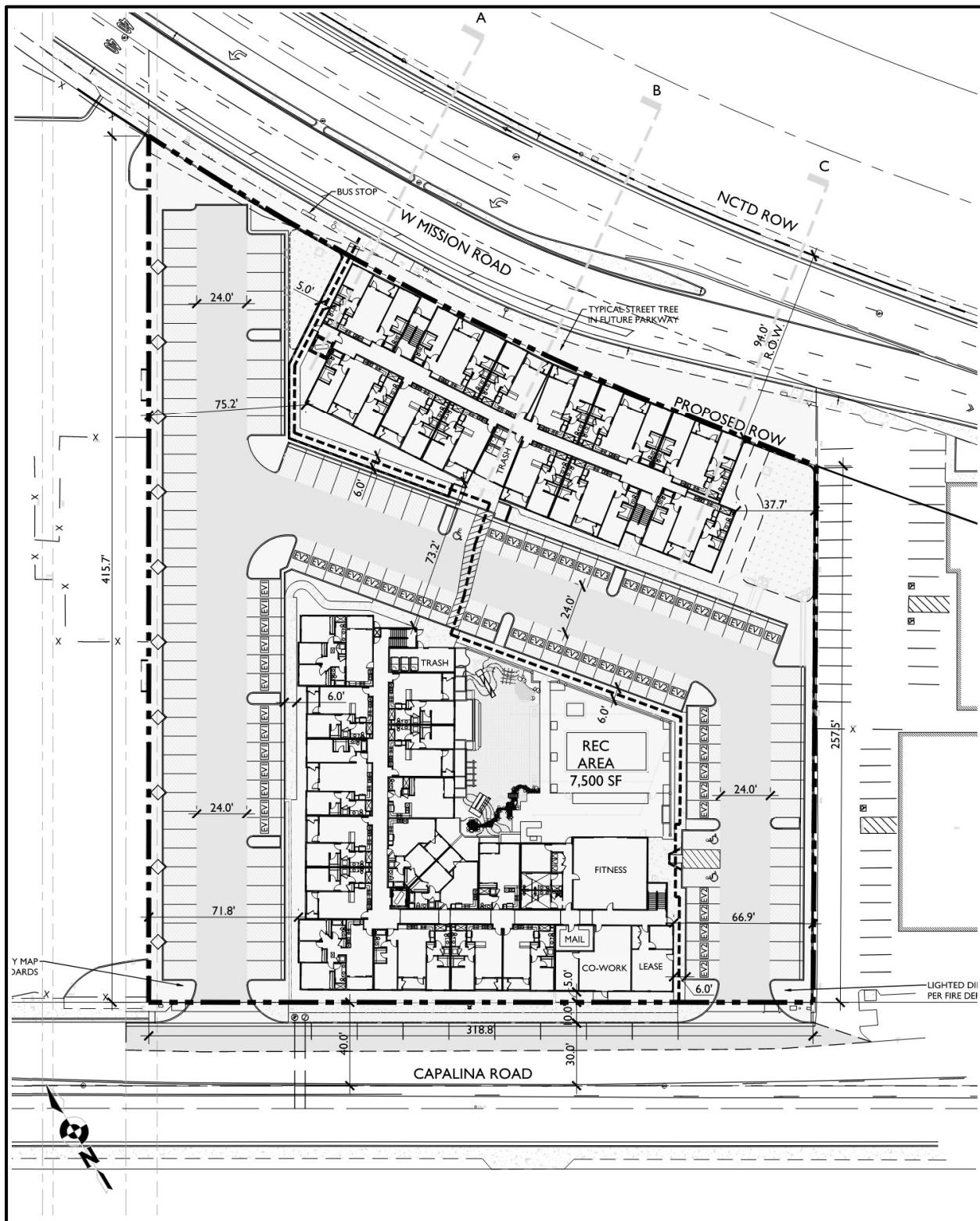
1.2 Project Location

The vacant 2.51-acre project site having an Assessor Parcel Number (APN) of 219-115-3300 is located along Capalina Road in the Business/Industrial Community in the City of San Marcos. Specifically, the project site is located north of State Route 78 (SR-78) and east of Rancho Santa Fe Road between Mission Road and Capalina Road. The project is bounded by existing commercial and retail uses on the east and west, by Mission Road to the north, and by Capalina Road to the south. A project vicinity map is shown in Figure 1-B. The nearest residential use is the mobile home park located south across Capalina Road.

1.3 Purpose of this Study

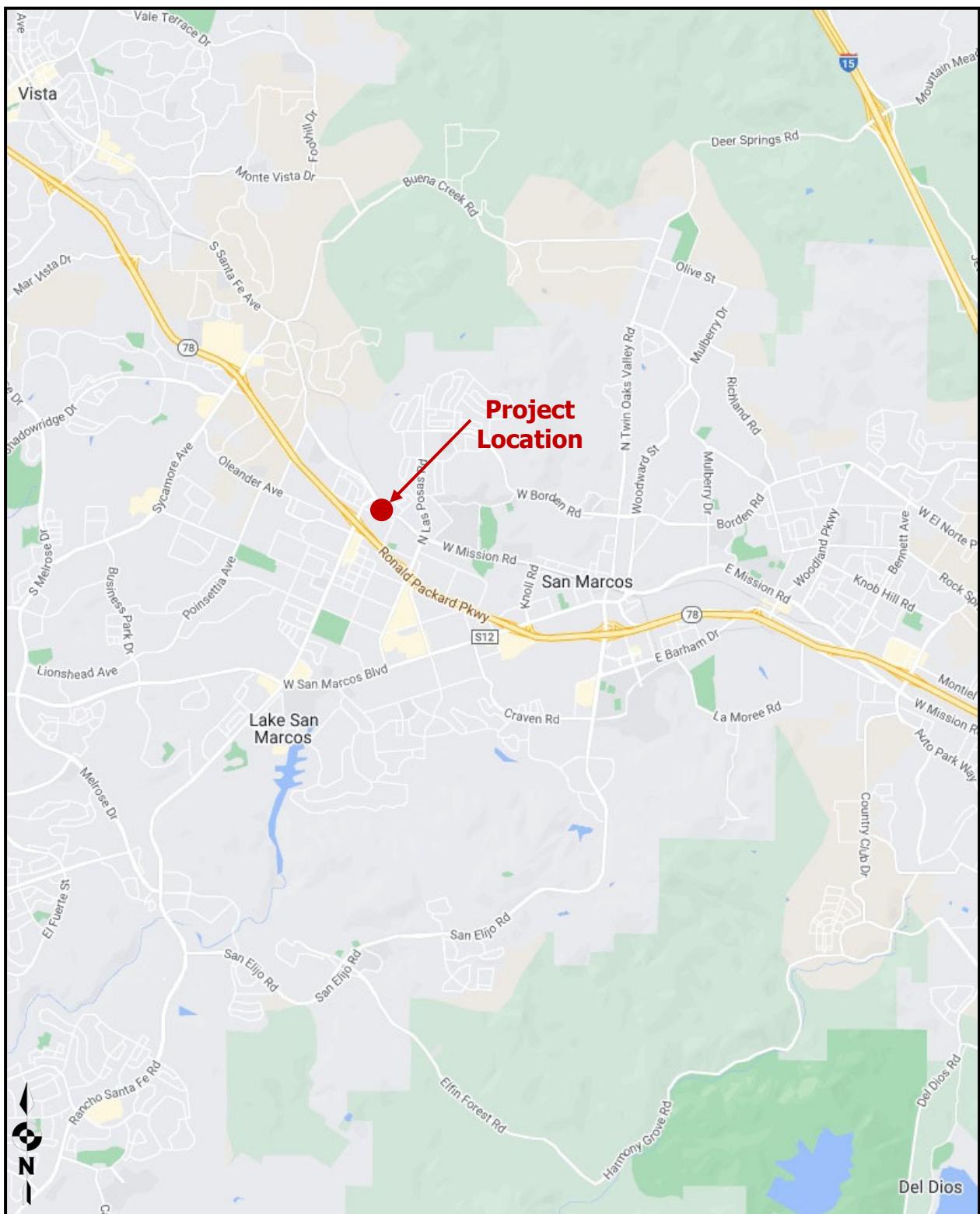
The purpose of this Air Quality study is to determine potential significant air quality impacts (if any) that may be generated by construction, area or operational emissions from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to bring those impacts to a level that would be considered less than significant under the California Environmental Quality Act (CEQA).

Figure 1-A: Proposed Project Site Development Plan



Source: (Summa Architecture, 2023)

Figure 1-B: Project Vicinity Map



Source: (Google, 2023)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The vacant undeveloped Project site is located north of Capalina Road, south of West Mission Road and is generally between North Rancho Santa Fe Road to the west and North Pacific Street to the east. The project site is relatively flat with elevations of approximately 580 to 590 feet above mean sea level. The existing site aerial map is shown in Figure 2-A. The project is mostly surrounded by commercial and residential uses.

Figure 2-A: Existing Site Layout



Source: (Google Earth Pro, 2023)

2.2 Climate and Meteorology

Climate within the San Diego Air Basin (SDAB) area often varies dramatically over short geographical distances with cooler temperatures on the western coast gradually warming to the east as prevailing winds from the west heats up. Most of southern California is dominated by high-pressure systems for much of the year, which keeps San Diego mostly sunny and warm. Typically, during the winter months, the high-pressure systems drop to the south and brings cooler, moister weather from the north.

Meteorological trends within the area generally show daytime highs ranging between 64°F in the winter to approximately 88°F in the summer with August usually being the hottest month. Daytime Low temperatures range from approximately 37°F in the winter to approximately 59°F in the summer. Precipitation is generally about 16.2 inches per year (WRCC, 2021). 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

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 to protect public health which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare and include protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The Environmental Protection Agency's (EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards (NAAQS) for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below (EPA, 2022):

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 (EPA, 2022).

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 (EPA, 2022).*
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 (EPA, 2022).*
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 (EPA, 2022).*
5. **Ozone (O₃):** *Ozone at the ground level 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 (EPA, 2022).*

It should be noted that Oxides of Nitrogen (NO_x) is a family of poisonous, highly reactive gases. These gases form when fuel is burned at high temperatures. NO_x pollution is emitted

by automobiles, trucks and various non-road vehicles (e.g., construction equipment, boats, etc.) as well as industrial sources such as power plants, industrial boilers, cement kilns, and turbines. NO_x often appears as a brownish gas. It is a strong oxidizing agent and plays a major role in the atmospheric reactions with Volatile Organic Compounds (VOCs) which produces ozone on hot summer days (EPA, 2023).

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 (EPA, 2022).*

2.3.2 State Standards and Definitions

The State of California Air Resources Board (ARB) sets the laws and regulations for air quality at State level. The California Ambient Air Quality Standards (CAAQS) are either the same as or more restrictive than the NAAQS in that the State standards also restrict 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 (CARB, 2023).*
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 (CARB, 2023).*
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 ppm) can cause a loss of consciousness and possibly death (CARB, 2023).*
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) (CARB, 2023).*

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 $\mu\text{g}/\text{m}^3$) | Ultraviolet Photometry | - | Same as Primary Standard | Ultraviolet Photometry | | | | | |
| | 8 Hour | 0.070 ppm (137 $\mu\text{g}/\text{m}^3$) | | 0.070 ppm (137 $\mu\text{g}/\text{m}^3$) | | | | | | | |
| Respirable Particulate Matter (PM10) ⁹ | 24 Hour | 50 $\mu\text{g}/\text{m}^3$ | Gravimetric or Beta Attenuation | 150 $\mu\text{g}/\text{m}^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis | | | | | |
| | Annual Arithmetic Mean | 20 $\mu\text{g}/\text{m}^3$ | | - | | | | | | | |
| Fine Particulate Matter (PM2.5) ⁹ | 24 Hour | No Separate State Standard | | 35 $\mu\text{g}/\text{m}^3$ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis | | | | | |
| | Annual Arithmetic Mean | 12 $\mu\text{g}/\text{m}^3$ | Gravimetric or Beta Attenuation | 12.0 $\mu\text{g}/\text{m}^3$ | | | | | | | |
| 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 $\mu\text{g}/\text{m}^3$) | Gas Phase Chemiluminescence | 0.053 ppm (100 $\mu\text{g}/\text{m}^3$) ⁸ | Same as Primary Standard | Gas Phase Chemiluminescence | | | | | |
| | 1 Hour | 0.18 ppm (339 $\mu\text{g}/\text{m}^3$) | | 0.100 ppm ⁸ (188/ $\mu\text{g}/\text{m}^3$) | | | | | | | |
| Sulfur Dioxide (SO ₂) ¹¹ | Annual Arithmetic Mean | - | Ultraviolet Fluorescence | 0.030 ppm ¹⁰ (for Certain Areas) | - | Ultraviolet Fluorescence; Spectrophotometry (Pararoosaniline Method) ⁹ | | | | | |
| | 24 Hour | 0.04 ppm (105 $\mu\text{g}/\text{m}^3$) | | 0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9) | - | | | | | | |
| | 3 Hour | - | | - | 0.5 ppm (1300 $\mu\text{g}/\text{m}^3$) | | | | | | |
| | 1 Hour | 0.25 ppm (655 $\mu\text{g}/\text{m}^3$) | | 75 ppb (196 $\mu\text{g}/\text{m}^3$) | - | | | | | | |
| Lead ^{12,13} | 30 Day Average | 1.5 $\mu\text{g}/\text{m}^3$ | Atomic Absorption | - | - | - | | | | | |
| | Calendar Quarter | - | | 1.5 $\mu\text{g}/\text{m}^3$ | Same as Primary Standard | High Volume Sampler and Atomic Absorption | | | | | |
| | Rolling 3-Month Average | - | | 0.15 $\mu\text{g}/\text{m}^3$ | | | | | | | |
| Visibility Reducing Particles | 8 Hour | See footnote 13 | | | | | | | | | |
| Sulfates | 24 Hour | 25 $\mu\text{g}/\text{m}^3$ | Ion Chromatography | | | | | | | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 $\mu\text{g}/\text{m}^3$) | Ultraviolet Fluorescence | | | | | | | | |
| Vinyl Chloride ¹² | 24 Hour | 0.01 ppm (26 $\mu\text{g}/\text{m}^3$) | Gas Chromatography | | | | | | | | |
| <p>1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, 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.</p> <p>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 $\mu\text{g}/\text{m}^3$ is equal to or less than one. For PM2.5, 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.</p> <p>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.</p> <p>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.</p> <p>5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.</p> <p>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.</p> <p>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.</p> <p>8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.</p> <p>9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu\text{g}/\text{m}^3$ to 12.0 $\mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu\text{g}/\text{m}^3$, as was the annual secondary standard of 15 $\mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.</p> <p>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.</p> | | | | | | | | | | | |
| Source: (California Air Resources Board, 05/04/2016) | | | | | | | | | | | |

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. 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. California therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed 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 predictions by the San Diego Association of Governments (SANDAG). Projects that produce less growth than predicted by SANDAG would generally conform to the RAQS. Projects that create more growth than projected by SANDAG may create a significant impact if the Project produces unmitigable air quality emissions or 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 |
| PM ₁₀ | Unclassifiable ** | Nonattainment |
| PM _{2.5} | 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 ppbm 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.

***The California Air Resources Board (CARB) has not reclassified the region to attainment yet due to (1) incomplete data, and (2) the use of non-California Approved Samplers (CAS). While data collected does meet the requirements for designation of attainment with federal PM_{2.5} standards, the data completeness requirements for state PM_{2.5} standards substantially exceed federal requirements and mandates, and have historically not been feasible for most air districts to adhere to given local resources. APCD has begun replacing most regional filter-based PM_{2.5} monitors as they reach the end of their useful life with continuous PM_{2.5} air monitors to ensure collected data meets stringent completeness requirements in the future. APCD anticipates these new monitors will be approved as "CAS" monitors once CARB review the list of approved monitors, which has not been updated since 2013.

(SDAPCD, 2023)

2.4 California Environmental Quality Act (CEQA) 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 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 San Diego Regional Air Quality Strategy (RAQS) or applicable portions of the State Implementation Plan (SIP)?
- 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 (PM₁₀, PM_{2.5} or exceed quantitative thresholds for O₃ precursors, oxides of nitrogen [NO_x] and Volatile Organic Compounds [VOCs])?

- C: Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations?
- D: Result in other emission (such as those leading to odors) adversely affecting a substantial number of people?

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established thresholds in Rule 20.2 for new or modified stationary sources. These screening criteria can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. Also, since SDAPCD does not have AQI threshold for Volatile Organic Compounds (VOCs), it is acceptable to use the Coachella Valley VOC threshold from South Coast Air Quality Management District. Should emissions be found to exceed these thresholds, 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 screening thresholds for construction and daily operations are shown in Table 2.3 below.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

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

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 cancer risk to over 10 in one million. In addition, a project shall not generate either a chronic or acute health hazard index greater than one. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

The U.S. Environmental Protection Agency (U.S. EPA) uses the term Volatile Organic Compounds (VOC) and the California Air Resources Board's (CARB's) Emission Inventory Branch (EIB) uses the term Reactive Organic Gases (ROG) to essentially define the same thing. There are minor deviations between compounds that define each term. However, for purposes of this study we will assume they are essentially the same due to the fact SCAQMD interchanges these words and because CalEEMod directly calculates ROG in place of VOC.

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. The District operates 10 monitoring sites, which collect data on criteria pollutants. Table 2.4 identifies the criteria pollutants monitored at the aforementioned station.

SDAPCD published the five-year air quality summary for all of the monitoring stations within the San Diego basin (SDAPCD, 2022). The proposed development project is closest to the Camp Pendleton and Carmel Mountain Ranch Monitoring stations. Table 2.4 identifies the criteria pollutants monitored at the aforementioned station.

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

| Pollutant | Closest Recorded Ambient Monitoring Site | Averaging Time | CAAQS | NAAQS | 2021 | 2022 | Days Exceeded over 2 years | |
|--|--|------------------------|----------------------|-----------------------|--|-------|----------------------------|--|
| O ₃ (ppm) | Camp Pendleton or Carmel Mountain Ranch | 1 Hour | 0.09 ppm | No Standard | 0.07 | 0.08 | 0 | |
| | | 8 Hour | 0.070 ppm | 0.070 ppm | 0.06 | 0.07 | 0 | |
| PM ₁₀ (µg/m ³) | | 24 Hour | 50 µg/m ³ | 150 µg/m ³ | PM10 Data Not Available for Monitoring Sites near Project Site | | | |
| | | Annual Arithmetic Mean | 20 µg/m ³ | No Standard | | | | |
| * PM _{2.5} (µg/m ³) | | 24 Hour | No standard - | 35 µg/m ³ | 23.5 | 14.9 | N/A | |
| | | Annual Arithmetic Mean | 12 µg/m ³ | 15 µg/m ³ | 8.5 | 7.6 | N/A | |
| NO ₂ (ppm) | | Annual Arithmetic Mean | 0.030 ppm | 0.053 ppm | 0.013 | 0.013 | N/A | |
| | | 1 Hour | 0.18 ppm | 0.100 ppm | 0.059 | 0.059 | N/A | |
| | | 1 Hour | 20 ppm | 35 ppm | 3.0 | 2.2 | N/A | |
| * CO (ppm) | | 8 Hour | 9 ppm | 9 ppm | 1.8 | 1.2 | N/A | |

Notes:

1. Yearly maximums marked with “-” indicated data was not available for either monitoring station.
2. * Data was selected from the Carmel Mountain Ranch station which began in 2019. All other data presented was collected at the Camp Pendleton Monitoring Station.
3. SO₂ is only monitored at the El Cajon Monitoring Station. Within the entire County of San Diego, SO₂ emissions within the County are essentially Zero for all metrics including the Average, Maximum 24 hour and 1- hour standards. The Highest 1-hr measurement identified is 0.004 ppm and the most restrictive standard (CAAQS for SO₂) is 0.25 ppm.

3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using CalEEMod 2020.4.0 air quality model, which was developed by BREEZE Software for South Coast Air Quality Management District (SCAQMD) in 2021. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the Project and uses methodologies presented in the US EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in **Attachment A** to this report.

It should be noted that CalEEMod 2022 has been released though since its release has been updated 29 times. Utilization of the current release version 2022.1.1.13 is anticipated to result in similar to lower AQ emissions and the 2020 version is considered conservative. Therefore, CalEEMod 2020.4.0 would still be relevant for this analysis.

The AERSCREEN dispersion model was used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model will predict the maximum exposure distance and concentrations. The AERSCREEN input/output file for the proposed Project is shown in **Attachment B** at the end of this report. The worst case exhaust emissions generated from the Project from construction equipment was utilized and calculated within the CalEEMod model.

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 worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015).

Equation 1

$$Dose_{air} = C_{air} * (BR/BW) * A * EF * (1 \times 10^{-6})$$

| | | |
|---------------------|---|---|
| Dose _{air} | = | Dose through inhalation (mg/kg/d) |
| C _{air} | = | Concentration in air ($\mu\text{g}/\text{m}^3$) Annual average DPM concentration in $\mu\text{g}/\text{m}^3$ - AERSCREEN predicts a 1-hr concentration and is corrected to an annual average by multiplying the 1-hr average by 0.08 (US EPA, 1992) |
| BR/BW | = | Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range. |
| A | = | Inhalation absorption factor (assumed to be 1) |
| EF | = | Exposure frequency (unitless, days/365 days) |

1×10^{-6} = Milligrams to micrograms conversion (10^{-3} mg/ µg), cubic meters to liters conversion (10^{-3} m³/l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, 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 the Project models which is provided as **Attachment C** to this report. The worst case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015).

Equation 2

$$\text{RISKinh-res} = \text{DOSEair} \times \text{CPF} \times \text{ASF} \times \text{ED/AT} \times \text{FAH}$$

| | | |
|-------------|---|---|
| RISKinh-res | = | Residential inhalation cancer risk |
| DOSEair | = | 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) |

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 also 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.

It should be noted that for construction activities, the exposure duration would be over a short term duration or less than 9, 30 or 70 years. Because of this, it's recommended that the risk assessment look at the exposure age group bins most effected be utilized to determine risk over the short term duration.

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

3.2 Construction Assumptions

The project would start grading sometime in 2024 with residential construction to start shortly thereafter. Grading for the project will consist of approximately 4,030 cubic yards (CY) of cut material and 12,270 CY of fill material requiring an import of approximately 8,240 CY of fill material. Earthwork associated with grading within CalEEMod uses a "Grading Equipment Passes" methodology which has been approved by SCAQMD in consultation with building estimator references and is used as the basis of emission generation (CAPCOA, 2021). As a design feature, the project's construction contractor will utilize Tier IV rated diesel construction equipment to minimize diesel particulates from construction equipment. Table 3.1 below describes the construction equipment and durations.

Table 3.1: Expected Construction Equipment

| Equipment Identification | Proposed Start | Proposed Complete | Quantity |
|------------------------------|----------------|-------------------|----------|
| Site Preparation | 06/01/2024 | 06/05/2024 | |
| Graders | | | 1 |
| Scrapers | | | 1 |
| Tractors/Loaders/Backhoes | | | 1 |
| Grading | 06/06/2024 | 06/13/2024 | |
| Graders | | | 1 |
| Rubber Tired Dozers | | | 1 |
| Tractors/Loaders/Backhoes | | | 2 |
| Building Construction | 06/14/2024 | 04/17/2025 | |
| Cranes | | | 1 |
| Forklifts | | | 2 |
| Generator Sets | | | 1 |
| Tractors/Loaders/Backhoes | | | 1 |
| Welders | | | 3 |
| Paving | 02/21/2025 | 03/06/2025 | |
| Pavers | | | 1 |
| Paving Equipment | | | 1 |
| Rollers | | | 2 |
| Architectural Coating | 02/21/2025 | 04/17/2025 | |
| Air Compressors | | | 1 |

This equipment list is based upon equipment inventory within CalEEMod. The quantity and types are based upon assumptions provided by the project applicant.

3.3 Operational Emissions

Once construction is completed the proposed project would generate emissions from daily operations which would include sources such as Area, Energy, Mobile, Waste and Water uses, which are also calculated within CalEEMod. Area Sources include consumer products, landscaping and architectural coatings as part of regular maintenance. Energy sources would be from uses such as onsite natural gas and electrical use. The operational model results are also shown in ***Attachment A*** at the end of this report.

The traffic inputs for CalEEMod were adjusted to be consistent with the proposed project traffic study. Based on that study, the proposed project would generate 874 daily trips (CR Associates, 2023). The CalEEMod 2020.4.0 Model was run for both the winter and summer scenarios and assumed average winter and summer temperatures.

The model also estimates emission predictions for ROG, NO_x, CO, SO₂, PM₁₀ and PM_{2.5} for area source assumptions. Additionally, it was assumed that an average of 10% of the structural surface area will be re-painted each year. Finally, since the proposed project would not be installing hearth options, CalEEMod default hearth settings were modified to represent no hearth options. CalEEMod includes landscaping and consumer product assumptions which would apply to this project. Consumer product emissions are generated by a wide range of product categories, including air fresheners, automotive products, household cleaners, and personal care products. Emissions associated with these products primarily depend on the increased population associated with residential development.

As noted in the project description, the project will wire each garage for EV charging stations and will install 8 Electric Vehicle (EV) chargers and 15 will be EV capable. These charging stations would reduce mobile emissions though were not analyzed within this air quality assessment.

3.4 Odor Impacts

Potential onsite odor generators would include short-term construction odors from activities such as paving and possibly painting. Given this, short-term construction odors would not be considered an impact. Also, since the project is a residential development, no operational odor sources are expected.

4.0 FINDINGS

4.1 Construction Findings

The project would start grading sometime in 2024 and all building construction would be completed by 2025. The project would require import of 8,240 CY of soil. The following design features were assumed within the CalEEMod analysis:

- *Construction Design Feature 1: all heavy diesel construction equipment will be classified as Tier IV.*
- *Construction Design Feature 2: In accordance with Rule 67 of the California Air Resource Board, only Low VOC paints shall be utilized onsite.*
- *Best Management Practice 1: Comply with SDAPCD's fugitive dust rules and fugitive dust control measures which will be provided by the City of San Marcos.*

Table 4.1 shows the expected construction emissions. Based on the cumulative totals, Air Quality impacts would not be expected.

Table 4.1: Expected Construction Emissions Summary

| Year | ROG | NO _x | CO | SO ₂ | PM ₁₀ (Dust) | PM ₁₀ (Exhaust) | PM ₁₀ (Total) | PM _{2.5} (Dust) | PM _{2.5} (Exhaust) | PM _{2.5} (Total) |
|---|--------------|-----------------|--------------|-----------------|----------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------------------|------------------------------|
| 2024 | 0.66 | 23.37 | 17.80 | 0.12 | 10.36 | 0.23 | 10.59 | 4.30 | 0.22 | 4.52 |
| 2025 | 39.82 | 5.92 | 30.78 | 0.06 | 1.36 | 0.07 | 1.41 | 0.36 | 0.07 | 0.43 |
| (Maximum) | 39.82 | 23.37 | 30.78 | 0.12 | 10.36 | 0.23 | 10.59 | 4.30 | 0.22 | 4.52 |
| Screening Level Threshold (lb/day) | 75 | 250 | 550 | 250 | - | - | 100 | - | - | 55 |
| SDAPCD Impact? | No | No | No | No | - | - | No | - | - | No |

4.2 Health Risk

Based upon the air quality modeling, worst-case onsite PM₁₀ from onsite construction exhaust would cumulatively produce 0.0044 tons over the construction duration (320-calendar days) or an average of 1.44×10^{-4} grams/second. Utilizing the AERSCREEN dispersion model, the peak maximum 1-hr concentration is 0.349 µg/m³ during the worst-case construction period. Converting the peak 1-hr concentration to an annual concentration by multiplying it by 0.08 (US EPA, 1992) yields an annual concentration of 0.0279 µg/m³. Therefore, utilizing the risk

equation identified above in Section 3.1, the inhalation cancer risk is 3.74 per million over the construction duration. This risk would be expressed at the point of maximum exposure 75 meters away (246 feet) as predicted by AERSCREEN and shown in the model outputs provided within **Attachment B**. As a condition of project approval, the Project would be required to utilize Tier 4 diesel equipment. Since the threshold is 10 per million exposed with T-BACT installed, the project would have a less than significant impact and would be in compliance with the City's thresholds.

It should be noted that sensitive residential receptors are adjacent to the project site. Since the maximum risk is 3.74 per million exposed (and the threshold is 10 per million), all sensitive receptors would have cancer risks at or less than 3.74 per million exposed which would also represent a less than significant impact.

There are known 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 concentration of $0.349 \mu\text{g}/\text{m}^3$ divided by the REL of $5 \mu\text{g}/\text{m}^3$ yields a Health Hazard Index of 0.07, which is less than one. Therefore, based on thresholds for non-cancer risks in Section 3.1 above, non-cancer health risks are considered less than significant.

4.3 Odor Impact Findings

Potential onsite odor generators would include short-term construction odors from activities such as paving and possibly painting. Given this, short-term construction odors would not be considered an impact. Also, the proposed project would not be expected to generate odors during operation since the project is residential in nature. Odor impacts would be less than significant.

4.4 Operational Findings

The proposed project would generate 874 daily trips (CR Associates, 2023) once the proposed project is fully operational in the year 2025. This assumption has been incorporated into the CalEEMod file. The Project traffic trip distances are based on an average trip distance within the County which can be calculated using the total daily VMT within the County (86,284,768) miles divided by the total trips in the County (16,007,853) or roughly 5.4 miles and is also shown in **Attachment D** to this report.

The expected daily pollutant generation can be calculated utilizing the product of the average daily miles traveled and the expected emissions inventory calculated by CALEEMOD 2020.4.0 and can be seen in Table 4.2 on the following page. Based upon these calculations, the proposed project would not generate operational air quality impacts.

Table 4.2: Daily Pollutant Generation

| | ROG | NO_x | CO | SO_x | PM₁₀ | PM_{2.5} |
|---|-------------|-----------------------|--------------|-----------------------|------------------------|-------------------------|
| Summer Scenario | | | | | | |
| Area Source Emission Estimates (Lb/Day) | 3.37 | 0.11 | 9.82 | 0.00 | 0.05 | 0.05 |
| Energy Emission Estimates (Lb/Day) | 0.03 | 0.22 | 0.10 | 0.00 | 0.02 | 0.02 |
| Mobile Emission Estimates (Lb/Day) | 1.91 | 1.58 | 13.98 | 0.03 | 3.01 | 0.82 |
| Total (Lb/Day) | 5.31 | 1.91 | 23.90 | 0.03 | 3.08 | 0.89 |
| Screening Level Thresholds | 75 | 250 | 550 | 250 | 100 | 55 |
| Significant? | No | No | No | No | No | No |
| Winter Scenario | | | | | | |
| Area Source Emission Estimates (Lb/Day) | 3.37 | 0.11 | 9.82 | 0.00 | 0.05 | 0.05 |
| Energy Emission Estimates (Lb/Day) | 0.03 | 0.22 | 0.10 | 0.00 | 0.02 | 0.02 |
| Mobile Emission Estimates (Lb/Day) | 1.84 | 1.71 | 14.75 | 0.03 | 3.01 | 0.82 |
| Total (Lb/Day) | 5.23 | 2.05 | 24.67 | 0.03 | 3.08 | 0.89 |
| Screening Level Thresholds | 75 | 250 | 550 | 250 | 100 | 55 |
| Significant? | No | No | No | No | No | No |
| Daily pollutant generation assumes trip distances within CalEEMod | | | | | | |

4.5 Cumulative Impacts

The proposed project seeks to construct a 119 unit multi-family residential facility and 4,000 SF of commercial use. The existing MU-3 designation on the site would allow for a 90,000 SF office use with 10,000 SF of retail and 400 parking spaces (GP Buildout Scenario). Since the largest component of Air Quality emissions are typically derived from vehicular trips, the site would be considered less intense than would otherwise be assumed if a GP Buildout scenario was assumed and the growth generated from the GP Buildout scenario and would have been the basis of SANDAG growth projections. In addition, the project conforms to local air district significance thresholds.

Given this, the site development plan would be less intense in terms of Air Quality than would otherwise be allowed within the MU3 General Plan land use. Given this, the project would not conflict with the County's RAQS or the State's air quality SIP. Finally, since no direct construction air quality impacts are expected, no cumulative impacts are expected.

4.6 Conclusion of Findings

During construction of the proposed Project, fugitive dust emissions will be expected during grading and equipment usage however, these emissions would not exceed City thresholds and would not be considered an impact. The project has been designed and planned by incorporating design elements and best management practices which are a condition of approval to the project as shown below:

- *Construction Design Feature 1: all heavy diesel construction equipment will be classified as Tier IV.*
- *Construction Design Feature 2: In accordance with Rule 67 of the California Air Resource Board, only Low VOC paints shall be utilized onsite (100 g/l or less).*
- *Best Management Practice 1: Comply with SDAPCD's fugitive dust rules and fugitive dust control measures which will be provided by the City of San Marcos.*

Additionally, emissions will be generated from both area and operational sources by the proposed Project which are the result of Project generated traffic, landscaping maintenance equipment, consumer products, and annual maintenance and painting. Significant impacts are not expected during operations. This analysis assumes the project would not install hearth options within the development.

The proposed project seeks to construct a 119 unit multi-family residential facility with 4,000 SF of retail (874 ADT). The existing site would allow for up to 90,000 SF of office use and 10,000 SF of retail with 400 parking spaces which would generate 2,200 ADT. Since the largest component of Air Quality emissions are typically derived from vehicular trips, the proposed project would be considered less intense and reduce ADT by approximately 60%. Given this, the site development plan would be less intense than would otherwise be allowed under the GP Buildout scenario. Given this, the project would not conflict with the County's Regional (RAQS or the State's air quality SIP).

Finally, since a less than significant direct construction air quality impact is expected, a less than significant cumulative impact is expected.

5.0 REFERENCES

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ATTACHMENT A

CalEEMod

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Capalina 119 Unit Multi-Family Operational Year 2025**

San Diego County, Summer

1.0 Project Characteristics**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Parking Lot | 147.00 | Space | 1.34 | 58,800.00 | 0 |
| Apartments Mid Rise | 119.00 | Dwelling Unit | 1.08 | 119,000.00 | 340 |
| Strip Mall | 4.00 | 1000sqft | 0.09 | 4,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|----------------------------|--------------------------|----------------------------|-------|----------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 40 |
| Climate Zone | 13 | | | Operational Year | 2025 |
| Utility Company | San Diego Gas & Electric | | | | |
| CO2 Intensity (lb/MWhr) | 539.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.51 acres

Construction Phase - CS

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - 8240CY of import

Architectural Coating - Rule 67 Paint

Vehicle Trips - Per Traffic Study

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No Hearth

Area Coating - Rule 67 Paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - T4

Area Mitigation -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 10.00 | 40.00 |
| tblFireplaces | NumberGas | 65.45 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.90 | 119.00 |
| tblFireplaces | NumberWood | 41.65 | 0.00 |
| tblGrading | MaterialImported | 0.00 | 8,240.00 |
| tblLandUse | LotAcreage | 1.32 | 1.34 |
| tblLandUse | LotAcreage | 3.13 | 1.08 |
| tblVehicleTrips | CC_TL | 7.30 | 5.40 |
| tblVehicleTrips | CNW_TL | 7.30 | 5.40 |
| tblVehicleTrips | CW_TL | 9.50 | 5.40 |
| tblVehicleTrips | HO_TL | 7.50 | 5.40 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|-------|-------|
| tblVehicleTrips | HS_TL | 7.30 | 5.40 |
| tblVehicleTrips | HW_TL | 10.80 | 5.40 |
| tblVehicleTrips | ST_TR | 4.91 | 6.00 |
| tblVehicleTrips | ST_TR | 42.04 | 40.00 |
| tblVehicleTrips | SU_TR | 4.09 | 6.00 |
| tblVehicleTrips | SU_TR | 20.43 | 40.00 |
| tblVehicleTrips | WD_TR | 5.44 | 6.00 |
| tblVehicleTrips | WD_TR | 44.32 | 40.00 |
| tblWoodstoves | NumberCatalytic | 5.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.95 | 0.00 |

2.0 Emissions Summary

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|--|
| Year | lb/day | | | | | | | | | | lb/day | | | | | | |
| 2024 | 1.9113 | 36.0941 | 16.9657 | 0.1220 | 10.3603 | 0.7644 | 11.1247 | 4.2988 | 0.7103 | 5.0090 | 0.0000 | 13,220.08 49 | 13,220.08 49 | 1.2368 | 1.7765 | 13,780.40 25 | |
| 2025 | 41.5468 | 20.0715 | 28.3310 | 0.0563 | 1.3387 | 0.8151 | 2.1538 | 0.3586 | 0.7717 | 1.1303 | 0.0000 | 5,436.009 1 | 5,436.009 1 | 0.9142 | 0.0940 | 5,486.881 0 | |
| Maximum | 41.5468 | 36.0941 | 28.3310 | 0.1220 | 10.3603 | 0.8151 | 11.1247 | 4.2988 | 0.7717 | 5.0090 | 0.0000 | 13,220.08 49 | 13,220.08 49 | 1.2368 | 1.7765 | 13,780.40 25 | |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|--|
| Year | lb/day | | | | | | | | | | lb/day | | | | | | |
| 2024 | 0.6620 | 23.3690 | 17.8011 | 0.1220 | 10.3603 | 0.2258 | 10.5860 | 4.2988 | 0.2174 | 4.5162 | 0.0000 | 13,220.08 48 | 13,220.08 48 | 1.2368 | 1.7765 | 13,780.40 25 | |
| 2025 | 39.8234 | 5.9152 | 30.7785 | 0.0563 | 1.3387 | 0.0740 | 1.4127 | 0.3586 | 0.0732 | 0.4318 | 0.0000 | 5,436.009 1 | 5,436.009 1 | 0.9142 | 0.0940 | 5,486.881 0 | |
| Maximum | 39.8234 | 23.3690 | 30.7785 | 0.1220 | 10.3603 | 0.2258 | 10.5860 | 4.2988 | 0.2174 | 4.5162 | 0.0000 | 13,220.08 48 | 13,220.08 48 | 1.2368 | 1.7765 | 13,780.40 25 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 6.84 | 47.86 | -7.25 | 0.00 | 0.00 | 81.03 | 9.64 | 0.00 | 80.39 | 19.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Area | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 | |
| Energy | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| Mobile | 1.9075 | 1.5773 | 13.9822 | 0.0280 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | | 2,921.0681 | 2,921.0681 | 0.2232 | 0.1368 | 2,967.4161 | |
| Total | 5.3049 | 1.9115 | 23.9010 | 0.0299 | 2.9895 | 0.0944 | 3.0839 | 0.7964 | 0.0929 | 0.8892 | 0.0000 | 3,220.7225 | 3,220.7225 | 0.2456 | 0.1420 | 3,269.1713 | |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Area | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 | |
| Energy | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| Mobile | 1.9075 | 1.5773 | 13.9822 | 0.0280 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | | 2,921.0681 | 2,921.0681 | 0.2232 | 0.1368 | 2,967.4161 | |
| Total | 5.3049 | 1.9115 | 23.9010 | 0.0299 | 2.9895 | 0.0944 | 3.0839 | 0.7964 | 0.0929 | 0.8892 | 0.0000 | 3,220.7225 | 3,220.7225 | 0.2456 | 0.1420 | 3,269.1713 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 6/1/2024 | 6/5/2024 | 5 | 3 | |
| 2 | Grading | Grading | 6/6/2024 | 6/13/2024 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 6/14/2024 | 4/17/2025 | 5 | 220 | |
| 4 | Paving | Paving | 2/21/2025 | 3/6/2025 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/21/2025 | 4/17/2025 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.34

Residential Indoor: 240,975; Residential Outdoor: 80,325; Non-Residential Indoor: 6,000; Non-Residential Outdoor: 2,000; Striped Parking Area: 3,528 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 1,030.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 112.00 | 23.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 22.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.2406 | 13.1186 | 9.5796 | 0.0245 | | 0.4971 | 0.4971 | | 0.4573 | 0.4573 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | | 2,392.843 5 |
| Total | 1.2406 | 13.1186 | 9.5796 | 0.0245 | 1.5908 | 0.4971 | 2.0878 | 0.1718 | 0.4573 | 0.6291 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | | 2,392.843 5 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|---------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0206 | 0.0122 | 0.1799 | 5.6000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | 57.9326 | 57.9326 | 1.4500e-003 | 1.3700e-003 | 58.3763 | |
| Total | 0.0206 | 0.0122 | 0.1799 | 5.6000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | 57.9326 | 57.9326 | 1.4500e-003 | 1.3700e-003 | 58.3763 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.3008 | 1.3034 | 11.8595 | 0.0245 | | 0.0401 | 0.0401 | | 0.0401 | 0.0401 | 0.0000 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | 2,392.843 5 | |
| Total | 0.3008 | 1.3034 | 11.8595 | 0.0245 | 1.5908 | 0.0401 | 1.6309 | 0.1718 | 0.0401 | 0.2119 | 0.0000 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | 2,392.843 5 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0206 | 0.0122 | 0.1799 | 5.6000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | | 57.9326 | 57.9326 | 1.4500e-003 | 1.3700e-003 | 58.3763 | |
| Total | 0.0206 | 0.0122 | 0.1799 | 5.6000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | | 57.9326 | 57.9326 | 1.4500e-003 | 1.3700e-003 | 58.3763 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.2756 | 0.0000 | 7.2756 | 3.4540 | 0.0000 | 3.4540 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3015 | 13.8178 | 8.6998 | 0.0206 | | 0.5722 | 0.5722 | | 0.5265 | 0.5265 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | | 2,011.715 5 |
| Total | 1.3015 | 13.8178 | 8.6998 | 0.0206 | 7.2756 | 0.5722 | 7.8478 | 3.4540 | 0.5265 | 3.9804 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | | 2,011.715 5 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|---------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------------|-----------------|-------------|-------------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3842 | 22.2611 | 6.2541 | 0.1006 | 3.0026 | 0.1917 | 3.1943 | 0.8230 | 0.1834 | 1.0064 | 11,152.08 88 | 11,152.08 88 | 0.5896 | 1.7748 | | 11,695.71 66 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0257 | 0.0153 | 0.2249 | 7.0000e-004 | 0.0822 | 4.2000e-004 | 0.0826 | 0.0218 | 3.9000e-004 | 0.0222 | 72.4158 | 72.4158 | 1.8100e-003 | 1.7100e-003 | | 72.9704 |
| Total | 0.4099 | 22.2763 | 6.4790 | 0.1013 | 3.0847 | 0.1921 | 3.2768 | 0.8448 | 0.1838 | 1.0286 | 11,224.50 46 | 11,224.50 46 | 0.5914 | 1.7765 | | 11,768.68 70 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Fugitive Dust | | | | | 7.2756 | 0.0000 | 7.2756 | 3.4540 | 0.0000 | 3.4540 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.2522 | 1.0927 | 10.9071 | 0.0206 | | 0.0336 | 0.0336 | | 0.0336 | 0.0336 | 0.0000 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | 2,011.715 5 | |
| Total | 0.2522 | 1.0927 | 10.9071 | 0.0206 | 7.2756 | 0.0336 | 7.3092 | 3.4540 | 0.0336 | 3.4876 | 0.0000 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | 2,011.715 5 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|---------------|-------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.3842 | 22.2611 | 6.2541 | 0.1006 | 3.0026 | 0.1917 | 3.1943 | 0.8230 | 0.1834 | 1.0064 | | 11,152.08 88 | 11,152.08 88 | 0.5896 | 1.7748 | 11,695.71 66 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0257 | 0.0153 | 0.2249 | 7.0000e-004 | 0.0822 | 4.2000e-004 | 0.0826 | 0.0218 | 3.9000e-004 | 0.0222 | | 72.4158 | 72.4158 | 1.8100e-003 | 1.7100e-003 | 72.9704 | |
| Total | 0.4099 | 22.2763 | 6.4790 | 0.1013 | 3.0847 | 0.1921 | 3.2768 | 0.8448 | 0.1838 | 1.0286 | | 11,224.50 46 | 11,224.50 46 | 0.5914 | 1.7765 | 11,768.68 70 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 2,289.654 1 | 2,289.654 1 | 0.4265 | | | 2,300.315 4 | |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 2,289.654 1 | 2,289.654 1 | 0.4265 | | | 2,300.315 4 | |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|--------|--------|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0265 | 0.9792 | 0.3470 | 4.6200e-003 | 0.1558 | 6.0400e-003 | 0.1618 | 0.0448 | 5.7700e-003 | 0.0506 | 499.5441 | 499.5441 | 0.0158 | 0.0723 | | 521.4912 | |
| Worker | 0.2877 | 0.1711 | 2.5186 | 7.8600e-003 | 0.9201 | 4.7200e-003 | 0.9248 | 0.2440 | 4.3400e-003 | 0.2484 | 811.0567 | 811.0567 | 0.0203 | 0.0191 | | 817.2679 | |
| Total | 0.3141 | 1.1503 | 2.8656 | 0.0125 | 1.0758 | 0.0108 | 1.0866 | 0.2889 | 0.0101 | 0.2990 | 1,310.600 8 | 1,310.600 8 | 0.0360 | 0.0915 | | 1,338.759 1 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.654 | 2,289.654 | 0.4265 | | 2,300.315 | |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.654 | 2,289.654 | 0.4265 | | 2,300.315 | |
| | | | | | | | | | | | 1 | 1 | 1 | | 4 | 4 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|-----------|--------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0265 | 0.9792 | 0.3470 | 4.6200e-003 | 0.1558 | 6.0400e-003 | 0.1618 | 0.0448 | 5.7700e-003 | 0.0506 | 499.5441 | 499.5441 | 0.0158 | 0.0723 | 521.4912 | | |
| Worker | 0.2877 | 0.1711 | 2.5186 | 7.8600e-003 | 0.9201 | 4.7200e-003 | 0.9248 | 0.2440 | 4.3400e-003 | 0.2484 | 811.0567 | 811.0567 | 0.0203 | 0.0191 | 817.2679 | | |
| Total | 0.3141 | 1.1503 | 2.8656 | 0.0125 | 1.0758 | 0.0108 | 1.0866 | 0.2889 | 0.0101 | 0.2990 | 1,310.600 | 1,310.600 | 0.0360 | 0.0915 | 1,338.759 | 1 | |
| | | | | | | | | | | | 8 | 8 | | | | | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----|-----|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.4897 | 12.0233 | 14.0072 | 0.0250 | | 0.4700 | 0.4700 | | 0.4498 | 0.4498 | 2,289.889 | 2,289.889 | 0.4200 | | | 2,300.388 | |
| Total | 1.4897 | 12.0233 | 14.0072 | 0.0250 | | 0.4700 | 0.4700 | | 0.4498 | 0.4498 | 2,289.889 | 2,289.889 | 0.4200 | | | 2,300.388 | |
| | | | | | | | | | | | 8 | 8 | | | | 7 | |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|--------|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0257 | 0.9696 | 0.3412 | 4.5300e-003 | 0.1558 | 6.0200e-003 | 0.1618 | 0.0449 | 5.7600e-003 | 0.0506 | 490.0146 | 490.0146 | 0.0162 | 0.0709 | | 511.5499 | |
| Worker | 0.2711 | 0.1550 | 2.3627 | 7.5900e-003 | 0.9201 | 4.5200e-003 | 0.9246 | 0.2440 | 4.1600e-003 | 0.2482 | 791.1728 | 791.1728 | 0.0185 | 0.0180 | | 796.9893 | |
| Total | 0.2967 | 1.1246 | 2.7039 | 0.0121 | 1.0758 | 0.0105 | 1.0864 | 0.2889 | 9.9200e-003 | 0.2988 | 1,281.187 | 1,281.187 | 0.0346 | 0.0889 | | 1,308.539 | |
| | | | | | | | | | | | 4 | 4 | | | | 2 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|------------|------------|-----------|--------|------------|--------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0257 | 0.9696 | 0.3412 | 4.5300e-003 | 0.1558 | 6.0200e-003 | 0.1618 | 0.0449 | 5.7600e-003 | 0.0506 | 490.0146 | 490.0146 | 0.0162 | 0.0709 | 511.5499 | | |
| Worker | 0.2711 | 0.1550 | 2.3627 | 7.5900e-003 | 0.9201 | 4.5200e-003 | 0.9246 | 0.2440 | 4.1600e-003 | 0.2482 | 791.1728 | 791.1728 | 0.0185 | 0.0180 | 796.9893 | | |
| Total | 0.2967 | 1.1246 | 2.7039 | 0.0121 | 1.0758 | 0.0105 | 1.0864 | 0.2889 | 9.9200e-003 | 0.2988 | 1,281.1874 | 1,281.1874 | 0.0346 | 0.0889 | 1,308.5392 | | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|------------------------|------------------------|---------------|-----|----------------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.5945 | 5.7338 | 9.1357 | 0.0140 | | 0.2818 | 0.2818 | | 0.2593 | 0.2593 | 1,357.434 5 | 1,357.434 5 | 0.4390 | | | 1,368.410 1 | |
| Paving | 0.3511 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Total | 0.9456 | 5.7338 | 9.1357 | 0.0140 | | 0.2818 | 0.2818 | | 0.2593 | 0.2593 | | 1,357.434 5 | 1,357.434 5 | 0.4390 | | | 1,368.410 1 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0242 | 0.0138 | 0.2110 | 6.8000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | | 70.6404 | 70.6404 | 1.6500e-003 | 1.6000e-003 | 71.1598 |
| Total | 0.0242 | 0.0138 | 0.2110 | 6.8000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | | 70.6404 | 70.6404 | 1.6500e-003 | 1.6000e-003 | 71.1598 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.1724 | 0.7471 | 10.6316 | 0.0140 | | 0.0230 | 0.0230 | | 0.0230 | 0.0230 | 0.0000 | 1,357.4345 | 1,357.4345 | 0.4390 | | 1,368.4101 | |
| Paving | 0.3511 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | | 0.0000 | |
| Total | 0.5235 | 0.7471 | 10.6316 | 0.0140 | | 0.0230 | 0.0230 | | 0.0230 | 0.0230 | 0.0000 | 1,357.4345 | 1,357.4345 | 0.4390 | | 1,368.4101 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|---------|--------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0242 | 0.0138 | 0.2110 | 6.8000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | 70.6404 | 70.6404 | 1.6500e-003 | 1.6000e-003 | 71.1598 | | |
| Total | 0.0242 | 0.0138 | 0.2110 | 6.8000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | 70.6404 | 70.6404 | 1.6500e-003 | 1.6000e-003 | 71.1598 | | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.5664 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 38.7373 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0533 | 0.0304 | 0.4641 | 1.4900e-003 | 0.1807 | 8.9000e-004 | 0.1816 | 0.0479 | 8.2000e-004 | 0.0488 | | | 155.4089 | 155.4089 | 3.6300e-003 | 3.5300e-003 | 156.5515 |
| Total | 0.0533 | 0.0304 | 0.4641 | 1.4900e-003 | 0.1807 | 8.9000e-004 | 0.1816 | 0.0479 | 8.2000e-004 | 0.0488 | | | 155.4089 | 155.4089 | 3.6300e-003 | 3.5300e-003 | 156.5515 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Archit. Coating | 38.5664 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 | |
| Total | 38.5962 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0533 | 0.0304 | 0.4641 | 1.4900e-003 | 0.1807 | 8.9000e-004 | 0.1816 | 0.0479 | 8.2000e-004 | 0.0488 | | 155.4089 | 155.4089 | 3.6300e-003 | 3.5300e-003 | 156.5515 | |
| Total | 0.0533 | 0.0304 | 0.4641 | 1.4900e-003 | 0.1807 | 8.9000e-004 | 0.1816 | 0.0479 | 8.2000e-004 | 0.0488 | | 155.4089 | 155.4089 | 3.6300e-003 | 3.5300e-003 | 156.5515 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|--------|----------------|------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.9075 | 1.5773 | 13.9822 | 0.0280 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | 2,921.068 1 | 2,921.068 1 | 0.2232 | 0.1368 | 2,967.416 1 | | |
| Unmitigated | 1.9075 | 1.5773 | 13.9822 | 0.0280 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | 2,921.068 1 | 2,921.068 1 | 0.2232 | 0.1368 | 2,967.416 1 | | |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|---------------------|-------------------------|----------|--------|-------------|------------|------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | Annual VMT | Annual VMT |
| Apartments Mid Rise | 714.00 | 714.00 | 714.00 | 1,246,331 | 1,246,331 | 1,246,331 | 1,246,331 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Strip Mall | 160.00 | 160.00 | 160.00 | 173,846 | 173,846 | 173,846 | 173,846 |
| Total | 874.00 | 874.00 | 874.00 | 1,420,178 | 1,420,178 | 1,420,178 | 1,420,178 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 5.40 | 5.40 | 5.40 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Strip Mall | 5.40 | 5.40 | 5.40 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
| Parking Lot | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
| Strip Mall | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|----------|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| NaturalGas Unmitigated | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2372.19 | 0.0256 | 0.2186 | 0.0930 | 1.4000e-003 | | 0.0177 | 0.0177 | | 0.0177 | 0.0177 | 279.0814 | 279.0814 | 5.3500e-003 | 5.1200e-003 | 280.7398 | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Strip Mall | 24.3288 | 2.6000e-004 | 2.3900e-003 | 2.0000e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 2.8622 | 2.8622 | 5.0000e-005 | 5.0000e-005 | 2.8792 | |
| Total | | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2.37219 | 0.0256 | 0.2186 | 0.0930 | 1.4000e-003 | | 0.0177 | 0.0177 | | 0.0177 | 0.0177 | 279.0814 | 279.0814 | 5.3500e-003 | 5.1200e-003 | 280.7398 | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Strip Mall | -0.0243288 | 2.6000e-004 | 2.3900e-003 | 2.0000e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 2.8622 | 2.8622 | 5.0000e-005 | 5.0000e-005 | 2.8792 | |
| Total | | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

6.0 Area Detail**6.1 Mitigation Measures Area**

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 | |
| Unmitigated | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 | |

6.2 Area by SubCategoryUnmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|--|
| SubCategory | lb/day | | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4227 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Consumer Products | 2.6530 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Landscaping | 0.2959 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | | 18.1361 | |
| Total | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------|---------------|----------------|---------------|---------------|---------------|-----------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | | | |
| Architectural Coating | 0.4227 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | 0.0000 | | |
| Consumer Products | 2.6530 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | 0.0000 | | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | |
| Landscaping | 0.2959 | 0.1131 | 9.8237 | 5.2000e-004 | | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | | 17.7108 | 17.7108 | 0.0170 | | 18.1361 | |
| Total | 3.3716 | 0.1131 | 9.8237 | 5.2000e-004 | | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | | 0.0000 | 17.7108 | 17.7108 | 0.0170 | 0.0000 | 18.1361 |

7.0 Water Detail**7.1 Mitigation Measures Water**

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Capalina 119 Unit Multi-Family Operational Year 2025**

San Diego County, Winter

1.0 Project Characteristics**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Parking Lot | 149.00 | Space | 1.34 | 59,600.00 | 0 |
| Apartments Mid Rise | 119.00 | Dwelling Unit | 1.08 | 119,000.00 | 340 |
| Strip Mall | 4.00 | 1000sqft | 0.09 | 4,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|----------------------------|--------------------------|----------------------------|-------|----------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 40 |
| Climate Zone | 13 | | | Operational Year | 2025 |
| Utility Company | San Diego Gas & Electric | | | | |
| CO2 Intensity (lb/MWhr) | 539.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.51 acres

Construction Phase - CS

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - 8240CY of import

Architectural Coating - Rule 67 Paint

Vehicle Trips - Per Traffic Study

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No Hearth

Area Coating - Rule 67 Paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - T4

Area Mitigation -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 10.00 | 40.00 |
| tblFireplaces | NumberGas | 65.45 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.90 | 119.00 |
| tblFireplaces | NumberWood | 41.65 | 0.00 |
| tblGrading | MaterialImported | 0.00 | 8,240.00 |
| tblLandUse | LotAcreage | 3.13 | 1.08 |
| tblTripsAndVMT | WorkerTripNumber | 112.00 | 113.00 |
| tblTripsAndVMT | WorkerTripNumber | 22.00 | 23.00 |
| tblVehicleTrips | CC_TL | 7.30 | 5.40 |
| tblVehicleTrips | CNW_TL | 7.30 | 5.40 |
| tblVehicleTrips | CW_TL | 9.50 | 5.40 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|-------|-------|
| tblVehicleTrips | HO_TL | 7.50 | 5.40 |
| tblVehicleTrips | HS_TL | 7.30 | 5.40 |
| tblVehicleTrips | HW_TL | 10.80 | 5.40 |
| tblVehicleTrips | ST_TR | 4.91 | 6.00 |
| tblVehicleTrips | ST_TR | 42.04 | 40.00 |
| tblVehicleTrips | SU_TR | 4.09 | 6.00 |
| tblVehicleTrips | SU_TR | 20.43 | 40.00 |
| tblVehicleTrips | WD_TR | 5.44 | 6.00 |
| tblVehicleTrips | WD_TR | 44.32 | 40.00 |
| tblWoodstoves | NumberCatalytic | 5.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.95 | 0.00 |

2.0 Emissions Summary

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|--|
| Year | lb/day | | | | | | | | | | lb/day | | | | | | |
| 2024 | 1.9383 | 36.9957 | 16.8772 | 0.1220 | 10.3603 | 0.7647 | 11.1250 | 4.2988 | 0.7106 | 5.0094 | 0.0000 | 13,227.14 51 | 13,227.14 51 | 1.2355 | 1.7785 | 13,788.01 64 | |
| 2025 | 41.5880 | 20.1404 | 28.2407 | 0.0559 | 1.3551 | 0.8152 | 2.1704 | 0.3630 | 0.7718 | 1.1348 | 0.0000 | 5,394.413 9 | 5,394.413 9 | 0.9161 | 0.0964 | 5,446.044 4 | |
| Maximum | 41.5880 | 36.9957 | 28.2407 | 0.1220 | 10.3603 | 0.8152 | 11.1250 | 4.2988 | 0.7718 | 5.0094 | 0.0000 | 13,227.14 51 | 13,227.14 51 | 1.2355 | 1.7785 | 13,788.01 64 | |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|--|
| Year | lb/day | | | | | | | | | | lb/day | | | | | | |
| 2024 | 0.6707 | 24.2705 | 17.7126 | 0.1220 | 10.3603 | 0.2261 | 10.5864 | 4.2988 | 0.2178 | 4.5165 | 0.0000 | 13,227.14 51 | 13,227.14 51 | 1.2355 | 1.7785 | 13,788.01 64 | |
| 2025 | 39.8645 | 5.9841 | 30.6883 | 0.0559 | 1.3551 | 0.0741 | 1.4292 | 0.3630 | 0.0733 | 0.4363 | 0.0000 | 5,394.413 9 | 5,394.413 9 | 0.9161 | 0.0964 | 5,446.044 4 | |
| Maximum | 39.8645 | 24.2705 | 30.6883 | 0.1220 | 10.3603 | 0.2261 | 10.5864 | 4.2988 | 0.2178 | 4.5165 | 0.0000 | 13,227.14 51 | 13,227.14 51 | 1.2355 | 1.7785 | 13,788.01 64 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 6.87 | 47.05 | -7.28 | 0.00 | 0.00 | 81.00 | 9.63 | 0.00 | 80.36 | 19.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Area | 3.3719 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |
| Energy | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| Mobile | 1.8350 | 1.7135 | 14.7485 | 0.0268 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | | 2,797.3525 | 2,797.3525 | 0.2406 | 0.1447 | 2,846.5018 | |
| Total | 5.2328 | 2.0476 | 24.6674 | 0.0287 | 2.9895 | 0.0944 | 3.0839 | 0.7964 | 0.0929 | 0.8892 | 0.0000 | 3,097.0073 | 3,097.0073 | 0.2630 | 0.1499 | 3,148.2574 | |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Area | 3.3719 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |
| Energy | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| Mobile | 1.8350 | 1.7135 | 14.7485 | 0.0268 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | | 2,797.3525 | 2,797.3525 | 0.2406 | 0.1447 | 2,846.5018 | |
| Total | 5.2328 | 2.0476 | 24.6674 | 0.0287 | 2.9895 | 0.0944 | 3.0839 | 0.7964 | 0.0929 | 0.8892 | 0.0000 | 3,097.0073 | 3,097.0073 | 0.2630 | 0.1499 | 3,148.2574 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 6/1/2024 | 6/5/2024 | 5 | 3 | |
| 2 | Grading | Grading | 6/6/2024 | 6/13/2024 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 6/14/2024 | 4/17/2025 | 5 | 220 | |
| 4 | Paving | Paving | 2/21/2025 | 3/6/2025 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 2/21/2025 | 4/17/2025 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.34

Residential Indoor: 240,975; Residential Outdoor: 80,325; Non-Residential Indoor: 6,000; Non-Residential Outdoor: 2,000; Striped Parking Area: 3,576 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 1,030.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 113.00 | 23.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 23.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.2406 | 13.1186 | 9.5796 | 0.0245 | | 0.4971 | 0.4971 | | 0.4573 | 0.4573 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | | 2,392.843 5 |
| Total | 1.2406 | 13.1186 | 9.5796 | 0.0245 | 1.5908 | 0.4971 | 2.0878 | 0.1718 | 0.4573 | 0.6291 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | | 2,392.843 5 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|---------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0223 | 0.0137 | 0.1713 | 5.3000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | 54.7553 | 54.7553 | 1.5500e-003 | 1.4800e-003 | 55.2345 | |
| Total | 0.0223 | 0.0137 | 0.1713 | 5.3000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | 54.7553 | 54.7553 | 1.5500e-003 | 1.4800e-003 | 55.2345 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.3008 | 1.3034 | 11.8595 | 0.0245 | | 0.0401 | 0.0401 | | 0.0401 | 0.0401 | 0.0000 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | 2,392.843 5 | |
| Total | 0.3008 | 1.3034 | 11.8595 | 0.0245 | 1.5908 | 0.0401 | 1.6309 | 0.1718 | 0.0401 | 0.2119 | 0.0000 | 2,373.651 4 | 2,373.651 4 | 0.7677 | | 2,392.843 5 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0223 | 0.0137 | 0.1713 | 5.3000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | | 54.7553 | 54.7553 | 1.5500e-003 | 1.4800e-003 | 55.2345 | |
| Total | 0.0223 | 0.0137 | 0.1713 | 5.3000e-004 | 0.0657 | 3.4000e-004 | 0.0661 | 0.0174 | 3.1000e-004 | 0.0177 | | 54.7553 | 54.7553 | 1.5500e-003 | 1.4800e-003 | 55.2345 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.2756 | 0.0000 | 7.2756 | 3.4540 | 0.0000 | 3.4540 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3015 | 13.8178 | 8.6998 | 0.0206 | | 0.5722 | 0.5722 | | 0.5265 | 0.5265 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | | 2,011.715 5 |
| Total | 1.3015 | 13.8178 | 8.6998 | 0.0206 | 7.2756 | 0.5722 | 7.8478 | 3.4540 | 0.5265 | 3.9804 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | | 2,011.715 5 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|---------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------------|-----------------|-------------|-------------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3609 | 23.1607 | 6.3313 | 0.1008 | 3.0026 | 0.1921 | 3.1946 | 0.8230 | 0.1837 | 1.0068 | 11,163.12 07 | 11,163.12 07 | 0.5882 | 1.7766 | | 11,707.25 77 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0279 | 0.0172 | 0.2141 | 6.6000e-004 | 0.0822 | 4.2000e-004 | 0.0826 | 0.0218 | 3.9000e-004 | 0.0222 | 68.4441 | 68.4441 | 1.9300e-003 | 1.8500e-003 | | 69.0431 |
| Total | 0.3888 | 23.1779 | 6.5454 | 0.1014 | 3.0847 | 0.1925 | 3.2772 | 0.8448 | 0.1841 | 1.0289 | 11,231.56 48 | 11,231.56 48 | 0.5901 | 1.7785 | | 11,776.30 08 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Fugitive Dust | | | | | 7.2756 | 0.0000 | 7.2756 | 3.4540 | 0.0000 | 3.4540 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.2522 | 1.0927 | 10.9071 | 0.0206 | | 0.0336 | 0.0336 | | 0.0336 | 0.0336 | 0.0000 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | 2,011.715 5 | |
| Total | 0.2522 | 1.0927 | 10.9071 | 0.0206 | 7.2756 | 0.0336 | 7.3092 | 3.4540 | 0.0336 | 3.4876 | 0.0000 | 1,995.580 3 | 1,995.580 3 | 0.6454 | | 2,011.715 5 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|---------------|-------------------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.3609 | 23.1607 | 6.3313 | 0.1008 | 3.0026 | 0.1921 | 3.1946 | 0.8230 | 0.1837 | 1.0068 | | 11,163.12 07 | 11,163.12 07 | 0.5882 | 1.7766 | 11,707.25 77 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0279 | 0.0172 | 0.2141 | 6.6000e-004 | 0.0822 | 4.2000e-004 | 0.0826 | 0.0218 | 3.9000e-004 | 0.0222 | | 68.4441 | 68.4441 | 1.9300e-003 | 1.8500e-003 | 69.0431 | |
| Total | 0.3888 | 23.1779 | 6.5454 | 0.1014 | 3.0847 | 0.1925 | 3.2772 | 0.8448 | 0.1841 | 1.0289 | | 11,231.56 48 | 11,231.56 48 | 0.5901 | 1.7785 | 11,776.30 08 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|-----|-----|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 2,289.654 1 | 2,289.654 1 | 0.4265 | | | 2,300.315 4 | |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 2,289.654 1 | 2,289.654 1 | 0.4265 | | | 2,300.315 4 | |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------------|----------------|-----------|--------|--------|----------------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0256 | 1.0205 | 0.3577 | 4.6300e-003 | 0.1558 | 6.0600e-003 | 0.1618 | 0.0448 | 5.8000e-003 | 0.0506 | 500.2746 | 500.2746 | 0.0157 | 0.0725 | | 522.2698 | |
| Worker | 0.3155 | 0.1941 | 2.4194 | 7.5000e-003 | 0.9283 | 4.7600e-003 | 0.9330 | 0.2462 | 4.3800e-003 | 0.2506 | 773.4181 | 773.4181 | 0.0218 | 0.0209 | | 780.1871 | |
| Total | 0.3412 | 1.2147 | 2.7770 | 0.0121 | 1.0840 | 0.0108 | 1.0949 | 0.2911 | 0.0102 | 0.3012 | 1,273.692 7 | 1,273.692 7 | 0.0375 | 0.0934 | | 1,302.456 9 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.654 | 2,289.654 | 0.4265 | | 2,300.315 | |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.654 | 2,289.654 | 0.4265 | | 2,300.315 | |
| | | | | | | | | | | | 1 | 1 | 1 | | 4 | 4 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0256 | 1.0205 | 0.3577 | 4.6300e-003 | 0.1558 | 6.0600e-003 | 0.1618 | 0.0448 | 5.8000e-003 | 0.0506 | | 500.2746 | 500.2746 | 0.0157 | 0.0725 | 522.2698 | |
| Worker | 0.3155 | 0.1941 | 2.4194 | 7.5000e-003 | 0.9283 | 4.7600e-003 | 0.9330 | 0.2462 | 4.3800e-003 | 0.2506 | | 773.4181 | 773.4181 | 0.0218 | 0.0209 | 780.1871 | |
| Total | 0.3412 | 1.2147 | 2.7770 | 0.0121 | 1.0840 | 0.0108 | 1.0949 | 0.2911 | 0.0102 | 0.3012 | | 1,273.692 | 1,273.692 | 0.0375 | 0.0934 | 1,302.456 | |
| | | | | | | | | | | | 7 | 7 | | | 9 | | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----|-----------|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4897 | 12.0233 | 14.0072 | 0.0250 | | 0.4700 | 0.4700 | | 0.4498 | 0.4498 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |
| Total | 1.4897 | 12.0233 | 14.0072 | 0.0250 | | 0.4700 | 0.4700 | | 0.4498 | 0.4498 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |
| | | | | | | | | | | | 8 | 8 | | | 7 | |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|-----------|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0248 | 1.0106 | 0.3518 | 4.5300e-003 | 0.1558 | 6.0400e-003 | 0.1618 | 0.0449 | 5.7800e-003 | 0.0506 | 490.7483 | 490.7483 | 0.0161 | 0.0711 | 512.3305 | |
| Worker | 0.2980 | 0.1758 | 2.2731 | 7.2400e-003 | 0.9283 | 4.5600e-003 | 0.9328 | 0.2462 | 4.2000e-003 | 0.2504 | 754.5407 | 754.5407 | 0.0199 | 0.0196 | 760.8795 | |
| Total | 0.3228 | 1.1864 | 2.6249 | 0.0118 | 1.0840 | 0.0106 | 1.0947 | 0.2911 | 9.9800e-003 | 0.3011 | 1,245.288 | 1,245.288 | 0.0360 | 0.0907 | 1,273.210 | |
| | | | | | | | | | | | 9 | 9 | | | 0 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|-----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.889 | 2,289.889 | 0.4200 | | 2,300.388 | |
| | | | | | | | | | | | | | | | | | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|-----------|--------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0248 | 1.0106 | 0.3518 | 4.5300e-003 | 0.1558 | 6.0400e-003 | 0.1618 | 0.0449 | 5.7800e-003 | 0.0506 | 490.7483 | 490.7483 | 0.0161 | 0.0711 | 512.3305 | | |
| Worker | 0.2980 | 0.1758 | 2.2731 | 7.2400e-003 | 0.9283 | 4.5600e-003 | 0.9328 | 0.2462 | 4.2000e-003 | 0.2504 | 754.5407 | 754.5407 | 0.0199 | 0.0196 | 760.8795 | | |
| Total | 0.3228 | 1.1864 | 2.6249 | 0.0118 | 1.0840 | 0.0106 | 1.0947 | 0.2911 | 9.9800e-003 | 0.3011 | 1,245.288 | 1,245.288 | 0.0360 | 0.0907 | 1,273.210 | 0 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|------------------------|------------------------|---------------|-----|----------------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Off-Road | 0.5945 | 5.7338 | 9.1357 | 0.0140 | | 0.2818 | 0.2818 | | 0.2593 | 0.2593 | 1,357.434 5 | 1,357.434 5 | 0.4390 | | | 1,368.410 1 | |
| Paving | 0.3511 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Total | 0.9456 | 5.7338 | 9.1357 | 0.0140 | | 0.2818 | 0.2818 | | 0.2593 | 0.2593 | | 1,357.434 5 | 1,357.434 5 | 0.4390 | | | 1,368.410 1 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0264 | 0.0156 | 0.2012 | 6.4000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | 66.7735 | 66.7735 | 1.7600e-003 | 1.7300e-003 | | 67.3345 |
| Total | 0.0264 | 0.0156 | 0.2012 | 6.4000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | | 66.7735 | 66.7735 | 1.7600e-003 | 1.7300e-003 | 67.3345 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.1724 | 0.7471 | 10.6316 | 0.0140 | | 0.0230 | 0.0230 | | 0.0230 | 0.0230 | 0.0000 | 1,357.4345 | 1,357.4345 | 0.4390 | | 1,368.4101 |
| Paving | 0.3511 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.5235 | 0.7471 | 10.6316 | 0.0140 | | 0.0230 | 0.0230 | | 0.0230 | 0.0230 | 0.0000 | 1,357.4345 | 1,357.4345 | 0.4390 | | 1,368.4101 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0264 | 0.0156 | 0.2012 | 6.4000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | | 66.7735 | 66.7735 | 1.7600e-003 | 1.7300e-003 | 67.3345 |
| Total | 0.0264 | 0.0156 | 0.2012 | 6.4000e-004 | 0.0822 | 4.0000e-004 | 0.0826 | 0.0218 | 3.7000e-004 | 0.0222 | | 66.7735 | 66.7735 | 1.7600e-003 | 1.7300e-003 | 67.3345 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|----------------|---------------|---------------|--------------------|---------------|--------------|---------------|----------------|---------------|---------------|---------------|-----------|-----------------|-----------------|---------------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Archit. Coating | 38.5720 | | | | | | 0.0000 | 0.0000 | | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 38.7429 | 1.1455 | 1.8091 | 2.9700e-003 | | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0607 | 0.0358 | 0.4627 | 1.4700e-003 | 0.1889 | 9.3000e-004 | 0.1899 | 0.0501 | 8.5000e-004 | 0.0510 | | | 153.5791 | 153.5791 | 4.0500e-003 | 3.9900e-003 | 154.8693 |
| Total | 0.0607 | 0.0358 | 0.4627 | 1.4700e-003 | 0.1889 | 9.3000e-004 | 0.1899 | 0.0501 | 8.5000e-004 | 0.0510 | | | 153.5791 | 153.5791 | 4.0500e-003 | 3.9900e-003 | 154.8693 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Archit. Coating | 38.5720 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 | |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 | |
| Total | 38.6017 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|--|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 0.0607 | 0.0358 | 0.4627 | 1.4700e-003 | 0.1889 | 9.3000e-004 | 0.1899 | 0.0501 | 8.5000e-004 | 0.0510 | | 153.5791 | 153.5791 | 4.0500e-003 | 3.9900e-003 | 154.8693 | |
| Total | 0.0607 | 0.0358 | 0.4627 | 1.4700e-003 | 0.1889 | 9.3000e-004 | 0.1899 | 0.0501 | 8.5000e-004 | 0.0510 | | 153.5791 | 153.5791 | 4.0500e-003 | 3.9900e-003 | 154.8693 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|--------|-----------|------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8350 | 1.7135 | 14.7485 | 0.0268 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | 2,797.352 | 2,797.352 | 0.2406 | 0.1447 | 2,846.501 | 8 | |
| Unmitigated | 1.8350 | 1.7135 | 14.7485 | 0.0268 | 2.9895 | 0.0220 | 3.0116 | 0.7964 | 0.0205 | 0.8169 | 2,797.352 | 2,797.352 | 0.2406 | 0.1447 | 2,846.501 | 8 | |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|---------------------|-------------------------|----------|--------|-------------|------------|------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | Annual VMT | Annual VMT |
| Apartments Mid Rise | 714.00 | 714.00 | 714.00 | 1,246,331 | 1,246,331 | 1,246,331 | 1,246,331 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Strip Mall | 160.00 | 160.00 | 160.00 | 173,846 | 173,846 | 173,846 | 173,846 |
| Total | 874.00 | 874.00 | 874.00 | 1,420,178 | 1,420,178 | 1,420,178 | 1,420,178 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 5.40 | 5.40 | 5.40 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Strip Mall | 5.40 | 5.40 | 5.40 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
| Parking Lot | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
| Strip Mall | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|----------|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |
| NaturalGas Unmitigated | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2372.19 | 0.0256 | 0.2186 | 0.0930 | 1.4000e-003 | | 0.0177 | 0.0177 | | 0.0177 | 0.0177 | 279.0814 | 279.0814 | 5.3500e-003 | 5.1200e-003 | 280.7398 | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Strip Mall | 24.3288 | 2.6000e-004 | 2.3900e-003 | 2.0000e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 2.8622 | 2.8622 | 5.0000e-005 | 5.0000e-005 | 2.8792 | |
| Total | | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2.37219 | 0.0256 | 0.2186 | 0.0930 | 1.4000e-003 | | 0.0177 | 0.0177 | | 0.0177 | 0.0177 | 279.0814 | 279.0814 | 5.3500e-003 | 5.1200e-003 | 280.7398 | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Strip Mall | -0.0243288 | 2.6000e-004 | 2.3900e-003 | 2.0000e-003 | 1.0000e-005 | | 1.8000e-004 | 1.8000e-004 | | 1.8000e-004 | 1.8000e-004 | 2.8622 | 2.8622 | 5.0000e-005 | 5.0000e-005 | 2.8792 | |
| Total | | 0.0258 | 0.2210 | 0.0950 | 1.4100e-003 | | 0.0179 | 0.0179 | | 0.0179 | 0.0179 | 281.9436 | 281.9436 | 5.4000e-003 | 5.1700e-003 | 283.6190 | |

6.0 Area Detail**6.1 Mitigation Measures Area**

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|--|
| Category | lb/day | | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.3719 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |
| Unmitigated | 3.3719 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |

6.2 Area by SubCategoryUnmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|--|
| SubCategory | lb/day | | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4227 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Consumer Products | 2.6533 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | | | | 0.0000 | |
| Landscaping | 0.2959 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |
| Total | 3.3720 | 0.1131 | 9.8239 | 5.2000e-004 | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 | |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------|---------------|----------------|---------------|---------------|---------------|-----------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | | | |
| Architectural Coating | 0.4227 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | 0.0000 | | |
| Consumer Products | 2.6533 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | | | 0.0000 | | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | |
| Landscaping | 0.2959 | 0.1131 | 9.8239 | 5.2000e-004 | | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | | 17.7112 | 17.7112 | 0.0170 | | 18.1366 | |
| Total | 3.3720 | 0.1131 | 9.8239 | 5.2000e-004 | | | 0.0545 | 0.0545 | | 0.0545 | 0.0545 | | 0.0000 | 17.7112 | 17.7112 | 0.0170 | 0.0000 | 18.1366 |

7.0 Water Detail**7.1 Mitigation Measures Water**

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Capalina 119 Unit Multi-Family Operational Year 2025**

San Diego County, Annual

1.0 Project Characteristics**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---------------------|--------|---------------|-------------|--------------------|------------|
| Parking Lot | 147.00 | Space | 1.34 | 58,800.00 | 0 |
| Apartments Mid Rise | 119.00 | Dwelling Unit | 1.08 | 119,000.00 | 340 |
| Strip Mall | 4.00 | 1000sqft | 0.09 | 4,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|----------------------------|--------------------------|----------------------------|-------|----------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 40 |
| Climate Zone | 13 | | | Operational Year | 2025 |
| Utility Company | San Diego Gas & Electric | | | | |
| CO2 Intensity (lb/MWhr) | 539.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.51 acres

Construction Phase - CS

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - 8240CY of import

Architectural Coating - Rule 67 Paint

Vehicle Trips - Per Traffic Study

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No Hearth

Area Coating - Rule 67 Paint

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - T4

Area Mitigation -

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 10.00 | 40.00 |
| tblFireplaces | NumberGas | 65.45 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.90 | 119.00 |
| tblFireplaces | NumberWood | 41.65 | 0.00 |
| tblGrading | MaterialImported | 0.00 | 8,240.00 |
| tblLandUse | LotAcreage | 1.32 | 1.34 |
| tblLandUse | LotAcreage | 3.13 | 1.08 |
| tblVehicleTrips | CC_TL | 7.30 | 5.40 |
| tblVehicleTrips | CNW_TL | 7.30 | 5.40 |
| tblVehicleTrips | CW_TL | 9.50 | 5.40 |
| tblVehicleTrips | HO_TL | 7.50 | 5.40 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|-------|-------|
| tblVehicleTrips | HS_TL | 7.30 | 5.40 |
| tblVehicleTrips | HW_TL | 10.80 | 5.40 |
| tblVehicleTrips | ST_TR | 4.91 | 6.00 |
| tblVehicleTrips | ST_TR | 42.04 | 40.00 |
| tblVehicleTrips | SU_TR | 4.09 | 6.00 |
| tblVehicleTrips | SU_TR | 20.43 | 40.00 |
| tblVehicleTrips | WD_TR | 5.44 | 6.00 |
| tblVehicleTrips | WD_TR | 44.32 | 40.00 |
| tblWoodstoves | NumberCatalytic | 5.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.95 | 0.00 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2024 | 0.1434 | 1.1334 | 1.2648 | 3.0600e-003 | 0.1085 | 0.0423 | 0.1508 | 0.0334 | 0.0404 | 0.0737 | 0.0000 | 270.3878 | 270.3878 | 0.0345 | 0.0109 | 274.4862 |
| 2025 | 0.8493 | 0.5605 | 0.7309 | 1.5800e-003 | 0.0444 | 0.0210 | 0.0654 | 0.0119 | 0.0200 | 0.0320 | 0.0000 | 137.7124 | 137.7124 | 0.0183 | 3.2300e-003 | 139.1298 |
| Maximum | 0.8493 | 1.1334 | 1.2648 | 3.0600e-003 | 0.1085 | 0.0423 | 0.1508 | 0.0334 | 0.0404 | 0.0737 | 0.0000 | 270.3878 | 270.3878 | 0.0345 | 0.0109 | 274.4862 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2024 | 0.0482 | 0.4373 | 1.3346 | 3.0600e-003 | 0.1085 | 4.0200e-003 | 0.1125 | 0.0334 | 3.9500e-003 | 0.0373 | 0.0000 | 270.3877 | 270.3877 | 0.0345 | 0.0109 | 274.4860 |
| 2025 | 0.7997 | 0.2013 | 0.7746 | 1.5800e-003 | 0.0444 | 1.9700e-003 | 0.0464 | 0.0119 | 1.9500e-003 | 0.0139 | 0.0000 | 137.7123 | 137.7123 | 0.0183 | 3.2300e-003 | 139.1297 |
| Maximum | 0.7997 | 0.4373 | 1.3346 | 3.0600e-003 | 0.1085 | 4.0200e-003 | 0.1125 | 0.0334 | 3.9500e-003 | 0.0373 | 0.0000 | 270.3877 | 270.3877 | 0.0345 | 0.0109 | 274.4860 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|-------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 14.58 | 62.30 | -5.69 | 0.00 | 0.00 | 90.53 | 26.49 | 0.00 | 90.24 | 51.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1 | 6-1-2024 | 8-31-2024 | 0.5819 | 0.2314 |
| 2 | 9-1-2024 | 11-30-2024 | 0.5182 | 0.1860 |
| 3 | 12-1-2024 | 2-28-2025 | 0.6267 | 0.2985 |
| 4 | 3-1-2025 | 5-31-2025 | 0.9566 | 0.7655 |
| | | Highest | 0.9566 | 0.7655 |

2.2 Overall Operational**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|----------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |
| Energy | 4.7200e-003 | 0.0403 | 0.0173 | 2.6000e-004 | | 3.2600e-003 | 3.2600e-003 | | 3.2600e-003 | 3.2600e-003 | 0.0000 | 175.6195 | 175.6195 | 8.7700e-003 | 1.8100e-003 | 176.3785 | |
| Mobile | 0.3272 | 0.3075 | 2.6134 | 4.9000e-003 | 0.5312 | 4.0000e-003 | 0.5352 | 0.1418 | 3.7300e-003 | 0.1455 | 0.0000 | 464.3424 | 464.3424 | 0.0388 | 0.0236 | 472.3455 | |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.9643 | 0.0000 | 11.9643 | 0.7071 | 0.0000 | 29.6410 | |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.5538 | 39.4674 | 42.0212 | 0.2647 | 6.4900e-003 | 50.5717 | |
| Total | 0.9199 | 0.3580 | 3.5149 | 5.2100e-003 | 0.5312 | 0.0122 | 0.5434 | 0.1418 | 0.0119 | 0.1537 | 14.5181 | 680.8753 | 695.3934 | 1.0207 | 0.0319 | 730.4175 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |
| Energy | 4.7200e-003 | 0.0403 | 0.0173 | 2.6000e-004 | | 3.2600e-003 | 3.2600e-003 | | 3.2600e-003 | 3.2600e-003 | 0.0000 | 175.6195 | 175.6195 | 8.7700e-003 | 1.8100e-003 | 176.3785 | |
| Mobile | 0.3272 | 0.3075 | 2.6134 | 4.9000e-003 | 0.5312 | 4.0000e-003 | 0.5352 | 0.1418 | 3.7300e-003 | 0.1455 | 0.0000 | 464.3424 | 464.3424 | 0.0388 | 0.0236 | 472.3455 | |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.9643 | 0.0000 | 11.9643 | 0.7071 | 0.0000 | 29.6410 | |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.5538 | 39.4674 | 42.0212 | 0.2647 | 6.4900e-003 | 50.5717 | |
| Total | 0.9199 | 0.3580 | 3.5149 | 5.2100e-003 | 0.5312 | 0.0122 | 0.5434 | 0.1418 | 0.0119 | 0.1537 | 14.5181 | 680.8753 | 695.3934 | 1.0207 | 0.0319 | 730.4175 | |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 6/1/2024 | 6/5/2024 | 5 | 3 | |
| 2 | Grading | Grading | 6/6/2024 | 6/13/2024 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 6/14/2024 | 4/17/2025 | 5 | 220 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|-----------|---|----|
| 4 | Paving | Paving | 2/21/2025 | 3/6/2025 | 5 | 10 |
| 5 | Architectural Coating | Architectural Coating | 2/21/2025 | 4/17/2025 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 4.5**Acres of Grading (Grading Phase): 6****Acres of Paving: 1.34**

Residential Indoor: 240,975; Residential Outdoor: 80,325; Non-Residential Indoor: 6,000; Non-Residential Outdoor: 2,000; Striped Parking Area: 3,528 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Site Preparation | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 1,030.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 112.00 | 23.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 4 | 10.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 22.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.3900e-003 | 0.0000 | 2.3900e-003 | 2.6000e-004 | 0.0000 | 2.6000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.8600e-003 | 0.0197 | 0.0144 | 4.0000e-005 | | 7.5000e-004 | 7.5000e-004 | | 6.9000e-004 | 6.9000e-004 | 0.0000 | 3.2300 | 3.2300 | 1.0400e-003 | 0.0000 | 3.2561 |
| Total | 1.8600e-003 | 0.0197 | 0.0144 | 4.0000e-005 | 2.3900e-003 | 7.5000e-004 | 3.1400e-003 | 2.6000e-004 | 6.9000e-004 | 9.5000e-004 | 0.0000 | 3.2300 | 3.2300 | 1.0400e-003 | 0.0000 | 3.2561 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0752 | 0.0752 | 0.0000 | 0.0000 | 0.0758 | |
| Total | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0752 | 0.0752 | 0.0000 | 0.0000 | 0.0758 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.3900e-003 | 0.0000 | 2.3900e-003 | 2.6000e-004 | 0.0000 | 2.6000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.5000e-004 | 1.9600e-003 | 0.0178 | 4.0000e-005 | | 6.0000e-005 | 6.0000e-005 | | 6.0000e-005 | 6.0000e-005 | 0.0000 | 3.2300 | 3.2300 | 1.0400e-003 | 0.0000 | 3.2561 |
| Total | 4.5000e-004 | 1.9600e-003 | 0.0178 | 4.0000e-005 | 2.3900e-003 | 6.0000e-005 | 2.4500e-003 | 2.6000e-004 | 6.0000e-005 | 3.2000e-004 | 0.0000 | 3.2300 | 3.2300 | 1.0400e-003 | 0.0000 | 3.2561 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2024****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0752 | 0.0752 | 0.0000 | 0.0000 | 0.0758 | |
| Total | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0752 | 0.0752 | 0.0000 | 0.0000 | 0.0758 | |

3.3 Grading - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0218 | 0.0000 | 0.0218 | 0.0104 | 0.0000 | 0.0104 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.9000e-003 | 0.0415 | 0.0261 | 6.0000e-005 | | 1.7200e-003 | 1.7200e-003 | | 1.5800e-003 | 1.5800e-003 | 0.0000 | 5.4311 | 5.4311 | 1.7600e-003 | 0.0000 | 5.4750 |
| Total | 3.9000e-003 | 0.0415 | 0.0261 | 6.0000e-005 | 0.0218 | 1.7200e-003 | 0.0236 | 0.0104 | 1.5800e-003 | 0.0119 | 0.0000 | 5.4311 | 5.4311 | 1.7600e-003 | 0.0000 | 5.4750 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.1200e-003 | 0.0693 | 0.0189 | 3.0000e-004 | 8.8200e-003 | 5.8000e-004 | 9.4000e-003 | 2.4200e-003 | 5.5000e-004 | 2.9700e-003 | 0.0000 | 30.3636 | 30.3636 | 1.6000e-003 | 4.8300e-003 | 31.8437 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 8.0000e-005 | 5.0000e-005 | 6.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.1879 | 0.1879 | 1.0000e-005 | 0.0000 | 0.1895 | |
| Total | 1.2000e-003 | 0.0693 | 0.0195 | 3.0000e-004 | 9.0600e-003 | 5.8000e-004 | 9.6400e-003 | 2.4800e-003 | 5.5000e-004 | 3.0400e-003 | 0.0000 | 30.5515 | 30.5515 | 1.6100e-003 | 4.8300e-003 | 32.0333 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0218 | 0.0000 | 0.0218 | 0.0104 | 0.0000 | 0.0104 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.6000e-004 | 3.2800e-003 | 0.0327 | 6.0000e-005 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | 0.0000 | 5.4311 | 5.4311 | 1.7600e-003 | 0.0000 | 5.4750 |
| Total | 7.6000e-004 | 3.2800e-003 | 0.0327 | 6.0000e-005 | 0.0218 | 1.0000e-004 | 0.0219 | 0.0104 | 1.0000e-004 | 0.0105 | 0.0000 | 5.4311 | 5.4311 | 1.7600e-003 | 0.0000 | 5.4750 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2024****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.1200e-003 | 0.0693 | 0.0189 | 3.0000e-004 | 8.8200e-003 | 5.8000e-004 | 9.4000e-003 | 2.4200e-003 | 5.5000e-004 | 2.9700e-003 | 0.0000 | 30.3636 | 30.3636 | 1.6000e-003 | 4.8300e-003 | 31.8437 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 8.0000e-005 | 5.0000e-005 | 6.4000e-004 | 0.0000 | 2.4000e-004 | 0.0000 | 2.4000e-004 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.1879 | 0.1879 | 1.0000e-005 | 0.0000 | 0.1895 | |
| Total | 1.2000e-003 | 0.0693 | 0.0195 | 3.0000e-004 | 9.0600e-003 | 5.8000e-004 | 9.6400e-003 | 2.4800e-003 | 5.5000e-004 | 3.0400e-003 | 0.0000 | 30.5515 | 30.5515 | 1.6100e-003 | 4.8300e-003 | 32.0333 | |

3.4 Building Construction - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1142 | 0.9169 | 1.0082 | 1.7900e-003 | | 0.0385 | 0.0385 | | 0.0368 | 0.0368 | 0.0000 | 148.5155 | 148.5155 | 0.0277 | 0.0000 | 149.2070 |
| Total | 0.1142 | 0.9169 | 1.0082 | 1.7900e-003 | | 0.0385 | 0.0385 | | 0.0368 | 0.0368 | 0.0000 | 148.5155 | 148.5155 | 0.0277 | 0.0000 | 149.2070 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 1.8600e-003 | 0.0725 | 0.0252 | 3.3000e-004 | 0.0109 | 4.3000e-004 | 0.0114 | 3.1500e-003 | 4.1000e-004 | 3.5700e-003 | 0.0000 | 32.4222 | 32.4222 | 1.0200e-003 | 4.7000e-003 | 33.8476 | |
| Worker | 0.0204 | 0.0135 | 0.1713 | 5.4000e-004 | 0.0642 | 3.4000e-004 | 0.0646 | 0.0171 | 3.1000e-004 | 0.0174 | 0.0000 | 50.1624 | 50.1624 | 1.3700e-003 | 1.3200e-003 | 50.5914 | |
| Total | 0.0222 | 0.0860 | 0.1964 | 8.7000e-004 | 0.0751 | 7.7000e-004 | 0.0759 | 0.0202 | 7.2000e-004 | 0.0210 | 0.0000 | 82.5846 | 82.5846 | 2.3900e-003 | 6.0200e-003 | 84.4390 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0236 | 0.2767 | 1.0679 | 1.7900e-003 | | 2.5200e-003 | 2.5200e-003 | | 2.5200e-003 | 2.5200e-003 | 0.0000 | 148.5153 | 148.5153 | 0.0277 | 0.0000 | 149.2068 |
| Total | 0.0236 | 0.2767 | 1.0679 | 1.7900e-003 | | 2.5200e-003 | 2.5200e-003 | | 2.5200e-003 | 2.5200e-003 | 0.0000 | 148.5153 | 148.5153 | 0.0277 | 0.0000 | 149.2068 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2024****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 1.8600e-003 | 0.0725 | 0.0252 | 3.3000e-004 | 0.0109 | 4.3000e-004 | 0.0114 | 3.1500e-003 | 4.1000e-004 | 3.5700e-003 | 0.0000 | 32.4222 | 32.4222 | 1.0200e-003 | 4.7000e-003 | 33.8476 | |
| Worker | 0.0204 | 0.0135 | 0.1713 | 5.4000e-004 | 0.0642 | 3.4000e-004 | 0.0646 | 0.0171 | 3.1000e-004 | 0.0174 | 0.0000 | 50.1624 | 50.1624 | 1.3700e-003 | 1.3200e-003 | 50.5914 | |
| Total | 0.0222 | 0.0860 | 0.1964 | 8.7000e-004 | 0.0751 | 7.7000e-004 | 0.0759 | 0.0202 | 7.2000e-004 | 0.0210 | 0.0000 | 82.5846 | 82.5846 | 2.3900e-003 | 6.0200e-003 | 84.4390 | |

3.4 Building Construction - 2025**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0574 | 0.4629 | 0.5393 | 9.6000e-004 | | 0.0181 | 0.0181 | | 0.0173 | 0.0173 | 0.0000 | 79.9781 | 79.9781 | 0.0147 | 0.0000 | 80.3448 |
| Total | 0.0574 | 0.4629 | 0.5393 | 9.6000e-004 | | 0.0181 | 0.0181 | | 0.0173 | 0.0173 | 0.0000 | 79.9781 | 79.9781 | 0.0147 | 0.0000 | 80.3448 |

Capalina 119 Unit Multi-Family Operational Year 2025 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 9.7000e-004 | 0.0387 | 0.0133 | 1.7000e-004 | 5.8800e-003 | 2.3000e-004 | 6.1100e-003 | 1.7000e-003 | 2.2000e-004 | 1.9200e-003 | 0.0000 | 17.1253 | 17.1253 | 5.6000e-004 | 2.4800e-003 | 17.8784 | |
| Worker | 0.0103 | 6.5800e-003 | 0.0866 | 2.8000e-004 | 0.0346 | 1.7000e-004 | 0.0348 | 9.1900e-003 | 1.6000e-004 | 9.3500e-003 | 0.0000 | 26.3508 | 26.3508 | 6.7000e-004 | 6.7000e-004 | 26.5671 | |
| Total | 0.0113 | 0.0452 | 0.0999 | 4.5000e-004 | 0.0405 | 4.0000e-004 | 0.0409 | 0.0109 | 3.8000e-004 | 0.0113 | 0.0000 | 43.4761 | 43.4761 | 1.2300e-003 | 3.1500e-003 | 44.4455 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0127 | 0.1490 | 0.5750 | 9.6000e-004 | | 1.3500e-003 | 1.3500e-003 | | 1.3500e-003 | 1.3500e-003 | 0.0000 | 79.9780 | 79.9780 | 0.0147 | 0.0000 | 80.3447 |
| Total | 0.0127 | 0.1490 | 0.5750 | 9.6000e-004 | | 1.3500e-003 | 1.3500e-003 | | 1.3500e-003 | 1.3500e-003 | 0.0000 | 79.9780 | 79.9780 | 0.0147 | 0.0000 | 80.3447 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2025****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 9.7000e-004 | 0.0387 | 0.0133 | 1.7000e-004 | 5.8800e-003 | 2.3000e-004 | 6.1100e-003 | 1.7000e-003 | 2.2000e-004 | 1.9200e-003 | 0.0000 | 17.1253 | 17.1253 | 5.6000e-004 | 2.4800e-003 | 17.8784 | |
| Worker | 0.0103 | 6.5800e-003 | 0.0866 | 2.8000e-004 | 0.0346 | 1.7000e-004 | 0.0348 | 9.1900e-003 | 1.6000e-004 | 9.3500e-003 | 0.0000 | 26.3508 | 26.3508 | 6.7000e-004 | 6.7000e-004 | 26.5671 | |
| Total | 0.0113 | 0.0452 | 0.0999 | 4.5000e-004 | 0.0405 | 4.0000e-004 | 0.0409 | 0.0109 | 3.8000e-004 | 0.0113 | 0.0000 | 43.4761 | 43.4761 | 1.2300e-003 | 3.1500e-003 | 44.4455 | |

3.5 Paving - 2025**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 2.9700e-003 | 0.0287 | 0.0457 | 7.0000e-005 | | 1.4100e-003 | 1.4100e-003 | | 1.3000e-003 | 1.3000e-003 | 0.0000 | 6.1572 | 6.1572 | 1.9900e-003 | 0.0000 | 6.2070 |
| Paving | 1.7600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 4.7300e-003 | 0.0287 | 0.0457 | 7.0000e-005 | | 1.4100e-003 | 1.4100e-003 | | 1.3000e-003 | 1.3000e-003 | 0.0000 | 6.1572 | 6.1572 | 1.9900e-003 | 0.0000 | 6.2070 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 1.2000e-004 | 8.0000e-005 | 1.0000e-003 | 0.0000 | 4.0000e-004 | 0.0000 | 4.0000e-004 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 0.3056 | 0.3056 | 1.0000e-005 | 1.0000e-005 | 0.3081 | |
| Total | 1.2000e-004 | 8.0000e-005 | 1.0000e-003 | 0.0000 | 4.0000e-004 | 0.0000 | 4.0000e-004 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 0.3056 | 0.3056 | 1.0000e-005 | 1.0000e-005 | 0.3081 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 8.6000e-004 | 3.7400e-003 | 0.0532 | 7.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 6.1572 | 6.1572 | 1.9900e-003 | 0.0000 | 6.2070 |
| Paving | 1.7600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 2.6200e-003 | 3.7400e-003 | 0.0532 | 7.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 6.1572 | 6.1572 | 1.9900e-003 | 0.0000 | 6.2070 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2025****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 1.2000e-004 | 8.0000e-005 | 1.0000e-003 | 0.0000 | 4.0000e-004 | 0.0000 | 4.0000e-004 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 0.3056 | 0.3056 | 1.0000e-005 | 1.0000e-005 | 0.3081 | |
| Total | 1.2000e-004 | 8.0000e-005 | 1.0000e-003 | 0.0000 | 4.0000e-004 | 0.0000 | 4.0000e-004 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 0.3056 | 0.3056 | 1.0000e-005 | 1.0000e-005 | 0.3081 | |

3.6 Architectural Coating - 2025**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7713 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.4200e-003 | 0.0229 | 0.0362 | 6.0000e-005 | | 1.0300e-003 | 1.0300e-003 | | 1.0300e-003 | 1.0300e-003 | 0.0000 | 5.1065 | 5.1065 | 2.8000e-004 | 0.0000 | 5.1135 |
| Total | 0.7748 | 0.0229 | 0.0362 | 6.0000e-005 | | 1.0300e-003 | 1.0300e-003 | | 1.0300e-003 | 1.0300e-003 | 0.0000 | 5.1065 | 5.1065 | 2.8000e-004 | 0.0000 | 5.1135 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 1.0500e-003 | 6.7000e-004 | 8.8400e-003 | 3.0000e-005 | 3.5300e-003 | 2.0000e-005 | 3.5500e-003 | 9.4000e-004 | 2.0000e-005 | 9.5000e-004 | 0.0000 | 2.6889 | 2.6889 | 7.0000e-005 | 7.0000e-005 | 2.7109 | |
| Total | 1.0500e-003 | 6.7000e-004 | 8.8400e-003 | 3.0000e-005 | 3.5300e-003 | 2.0000e-005 | 3.5500e-003 | 9.4000e-004 | 2.0000e-005 | 9.5000e-004 | 0.0000 | 2.6889 | 2.6889 | 7.0000e-005 | 7.0000e-005 | 2.7109 | |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7713 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.9000e-004 | 2.5800e-003 | 0.0367 | 6.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 5.1065 | 5.1065 | 2.8000e-004 | 0.0000 | 5.1135 |
| Total | 0.7719 | 2.5800e-003 | 0.0367 | 6.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 5.1065 | 5.1065 | 2.8000e-004 | 0.0000 | 5.1135 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Worker | 1.0500e-003 | 6.7000e-004 | 8.8400e-003 | 3.0000e-005 | 3.5300e-003 | 2.0000e-005 | 3.5500e-003 | 9.4000e-004 | 2.0000e-005 | 9.5000e-004 | 0.0000 | 2.6889 | 2.6889 | 7.0000e-005 | 7.0000e-005 | 2.7109 | |
| Total | 1.0500e-003 | 6.7000e-004 | 8.8400e-003 | 3.0000e-005 | 3.5300e-003 | 2.0000e-005 | 3.5500e-003 | 9.4000e-004 | 2.0000e-005 | 9.5000e-004 | 0.0000 | 2.6889 | 2.6889 | 7.0000e-005 | 7.0000e-005 | 2.7109 | |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3272 | 0.3075 | 2.6134 | 4.9000e-003 | 0.5312 | 4.0000e-003 | 0.5352 | 0.1418 | 3.7300e-003 | 0.1455 | 0.0000 | 464.3424 | 464.3424 | 0.0388 | 0.0236 | 472.3455 | |
| Unmitigated | 0.3272 | 0.3075 | 2.6134 | 4.9000e-003 | 0.5312 | 4.0000e-003 | 0.5352 | 0.1418 | 3.7300e-003 | 0.1455 | 0.0000 | 464.3424 | 464.3424 | 0.0388 | 0.0236 | 472.3455 | |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|---------------------|-------------------------|----------|--------|-------------|------------|------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT | Annual VMT | Annual VMT |
| Apartments Mid Rise | 714.00 | 714.00 | 714.00 | 1,246,331 | 1,246,331 | 1,246,331 | 1,246,331 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | | | |
| Strip Mall | 160.00 | 160.00 | 160.00 | 173,846 | 173,846 | 173,846 | 173,846 |
| Total | 874.00 | 874.00 | 874.00 | 1,420,178 | 1,420,178 | 1,420,178 | 1,420,178 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 5.40 | 5.40 | 5.40 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Strip Mall | 5.40 | 5.40 | 5.40 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
| Parking Lot | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Strip Mall | 0.561854 | 0.062428 | 0.177046 | 0.117565 | 0.023832 | 0.006317 | 0.008949 | 0.006298 | 0.000705 | 0.000577 | 0.028723 | 0.000955 | 0.004751 |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-------------|-------------|----------|------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 128.9406 | 128.9406 | 7.8800e-003 | 9.6000e-004 | 129.4222 | |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 128.9406 | 128.9406 | 7.8800e-003 | 9.6000e-004 | 129.4222 | |
| NaturalGas Mitigated | 4.7200e-003 | 0.0403 | 0.0173 | 2.6000e-004 | | 3.2600e-003 | 3.2600e-003 | 3.2600e-003 | 3.2600e-003 | 0.0000 | 46.6789 | 46.6789 | 8.9000e-004 | 8.6000e-004 | 46.9563 | |
| NaturalGas Unmitigated | 4.7200e-003 | 0.0403 | 0.0173 | 2.6000e-004 | | 3.2600e-003 | 3.2600e-003 | 3.2600e-003 | 3.2600e-003 | 0.0000 | 46.6789 | 46.6789 | 8.9000e-004 | 8.6000e-004 | 46.9563 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 865850 | 4.6700e-003 | 0.0399 | 0.0170 | 2.5000e-004 | | 3.2300e-003 | 3.2300e-003 | | 3.2300e-003 | 3.2300e-003 | 0.0000 | 46.2051 | 46.2051 | 8.9000e-004 | 8.5000e-004 | 46.4796 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 8880 | 5.0000e-005 | 4.4000e-004 | 3.7000e-004 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.4739 | 0.4739 | 1.0000e-005 | 1.0000e-005 | 0.4767 |
| Total | | 4.7200e-003 | 0.0403 | 0.0174 | 2.5000e-004 | | 3.2600e-003 | 3.2600e-003 | | 3.2600e-003 | 3.2600e-003 | 0.0000 | 46.6789 | 46.6789 | 9.0000e-004 | 8.6000e-004 | 46.9563 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 865850 | 4.6700e-003 | 0.0399 | 0.0170 | 2.5000e-004 | | 3.2300e-003 | 3.2300e-003 | | 3.2300e-003 | 3.2300e-003 | 0.0000 | 46.2051 | 46.2051 | 8.9000e-004 | 8.5000e-004 | 46.4796 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 8880 | 5.0000e-005 | 4.4000e-004 | 3.7000e-004 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.4739 | 0.4739 | 1.0000e-005 | 1.0000e-005 | 0.4767 |
| Total | | 4.7200e-003 | 0.0403 | 0.0174 | 2.5000e-004 | | 3.2600e-003 | 3.2600e-003 | | 3.2600e-003 | 3.2600e-003 | 0.0000 | 46.6789 | 46.6789 | 9.0000e-004 | 8.6000e-004 | 46.9563 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 456977 | 111.9277 | 6.8400e-003 | 8.3000e-004 | 112.3458 |
| Parking Lot | 20580 | 5.0407 | 3.1000e-004 | 4.0000e-005 | 5.0595 |
| Strip Mall | 48880 | 11.9722 | 7.3000e-004 | 9.0000e-005 | 12.0169 |
| Total | | 128.9406 | 7.8800e-003 | 9.6000e-004 | 129.4222 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 456977 | 111.9277 | 6.8400e-003 | 8.3000e-004 | 112.3458 |
| Parking Lot | 20580 | 5.0407 | 3.1000e-004 | 4.0000e-005 | 5.0595 |
| Strip Mall | 48880 | 11.9722 | 7.3000e-004 | 9.0000e-005 | 12.0169 |
| Total | | 128.9406 | 7.8800e-003 | 9.6000e-004 | 129.4222 |

6.0 Area Detail**6.1 Mitigation Measures Area**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|--|
| Category | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |
| Unmitigated | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |

6.2 Area by SubCategory**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|--|
| SubCategory | tons/yr | | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0771 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 0.4842 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 0.0266 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |
| Total | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Architectural Coating | 0.0771 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Consumer Products | 0.4842 | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Landscaping | 0.0266 | 0.0102 | 0.8841 | 5.0000e-005 | | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 |
| Total | 0.5879 | 0.0102 | 0.8841 | 5.0000e-005 | | | 4.9000e-003 | 4.9000e-003 | | 4.9000e-003 | 4.9000e-003 | 0.0000 | 1.4460 | 1.4460 | 1.3900e-003 | 0.0000 | 1.4808 |

7.0 Water Detail**7.1 Mitigation Measures Water**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 42.0212 | 0.2647 | 6.4900e-003 | 50.5717 |
| Unmitigated | 42.0212 | 0.2647 | 6.4900e-003 | 50.5717 |

7.2 Water by Land Use**Unmitigated**

| | Indoor/Out door Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.75333 / 4.88797 | 40.4881 | 0.2550 | 6.2500e-003 | 48.7239 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 0.29629 / 0.181597 | 1.5331 | 9.7400e-003 | 2.4000e-004 | 1.8478 |
| Total | | 42.0212 | 0.2647 | 6.4900e-003 | 50.5717 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

| | Indoor/Out door Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|------------------------|----------------|-----------------|-------------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.75333 / 4.88797 | 40.4881 | 0.2550 | 6.2500e- 003 | 48.7239 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 0.29629 / 0.181597 | 1.5331 | 9.7400e- 003 | 2.4000e- 004 | 1.8478 |
| Total | | 42.0212 | 0.2647 | 6.4900e- 003 | 50.5717 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| MT/yr | | | | |
| Mitigated | 11.9643 | 0.7071 | 0.0000 | 29.6410 |
| Unmitigated | 11.9643 | 0.7071 | 0.0000 | 29.6410 |

8.2 Waste by Land Use**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use tons MT/yr | | | | | |
| Apartments Mid Rise | 54.74 | 11.1117 | 0.6567 | 0.0000 | 27.5288 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 4.2 | 0.8526 | 0.0504 | 0.0000 | 2.1122 |
| Total | | 11.9643 | 0.7071 | 0.0000 | 29.6410 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 54.74 | 11.1117 | 0.6567 | 0.0000 | 27.5288 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Strip Mall | 4.2 | 0.8526 | 0.0504 | 0.0000 | 2.1122 |
| Total | | 11.9643 | 0.7071 | 0.0000 | 29.6410 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

11.0 Vegetation

ATTACHMENT B

AERSCREEN for PM₁₀ Exhaust

AERSCREEN 11126 / AERMOD 1206

01/13/23
09:11:24

TITLE: Capalina 120 unit MF 4k Retail T4

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

| | | |
|-----------------------------|---------------------------------|-----------------------------------|
| SOURCE EMISSION RATE: | 0.144E-03 g/s | 0.114E-02 lb/hr |
| AREA EMISSION RATE: | 0.142E-07 g/(s-m ²) | 0.113E-06 lb/(hr-m ²) |
| AREA HEIGHT: | 3.00 meters | 9.84 feet |
| AREA SOURCE LONG SIDE: | 100.80 meters | 330.71 feet |
| AREA SOURCE SHORT SIDE: | 100.80 meters | 330.71 feet |
| INITIAL VERTICAL DIMENSION: | 1.00 meters | 3.28 feet |
| RURAL OR URBAN: | URBAN | |
| POPULATION: | 79000 | |
| FLAGPOLE RECEPTOR HEIGHT: | 1.50 meters | 4.92 feet |
| INITIAL PROBE DISTANCE = | 5000. meters | 16404. feet |

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

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

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

MAXIMUM IMPACT RECEPTOR

| Zo SECTOR | SURFACE ROUGHNESS | 1-HR CONC (ug/m ³) | RADIAL (deg) | DIST (m) | TEMPORAL PERIOD |
|--------------|----------------------|-----------------------------------|-----------------|-------------|--------------------|
| 1* | 1.000 | 0.3490 | 45 | 75.0 | WIN |

* = worst case diagonal

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

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

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

ALBEDO: 0.35
BOWEN RATIO: 1.50

ROUGHNESS LENGTH: 1.000 (meters)

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

10 01 28 28 01

| H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
|-------|-------|--------|-------|-------|-------|-----|-------|------|-------|--------|-----|----|
| -0.92 | 0.043 | -9.000 | 0.020 | -999. | 21. | 8.5 | 1.000 | 1.50 | 0.35 | 0.50 | | |
| HT | REF | TA | HT | | | | | | | | | |
| 10.0 | 310.0 | 2.0 | | | | | | | | | | |

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR

10 01 28 28 01

| H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
|-------|-------|--------|-------|-------|-------|-----|-------|------|-------|--------|-----|----|
| -0.92 | 0.043 | -9.000 | 0.020 | -999. | 21. | 8.5 | 1.000 | 1.50 | 0.35 | 0.50 | | |
| HT | REF | TA | HT | | | | | | | | | |
| 10.0 | 310.0 | 2.0 | | | | | | | | | | |

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

| DIST (m) | MAXIMUM 1-HR CONC (ug/m3) | DIST (m) | MAXIMUM 1-HR CONC (ug/m3) |
|-------------|---------------------------------|-------------|---------------------------------|
| 1.00 | 0.2542 | 2525.00 | 0.4344E-02 |
| 25.00 | 0.3028 | 2550.00 | 0.4302E-02 |
| 50.01 | 0.3454 | 2575.00 | 0.4261E-02 |
| 75.00 | 0.3490 | 2600.00 | 0.4222E-02 |
| 100.00 | 0.2395 | 2625.00 | 0.4183E-02 |
| 125.00 | 0.1780 | 2650.00 | 0.4145E-02 |
| 150.01 | 0.1426 | 2675.00 | 0.4109E-02 |
| 174.99 | 0.1189 | 2700.00 | 0.4073E-02 |
| 200.00 | 0.1018 | 2725.00 | 0.4038E-02 |
| 225.00 | 0.8869E-01 | 2750.00 | 0.4004E-02 |
| 250.00 | 0.7834E-01 | 2775.00 | 0.3971E-02 |
| 274.99 | 0.6994E-01 | 2800.00 | 0.3939E-02 |
| 300.00 | 0.6296E-01 | 2825.00 | 0.3907E-02 |
| 325.00 | 0.5713E-01 | 2849.99 | 0.3877E-02 |
| 350.00 | 0.5217E-01 | 2875.00 | 0.3847E-02 |
| 375.01 | 0.4791E-01 | 2900.00 | 0.3818E-02 |
| 400.00 | 0.4422E-01 | 2925.00 | 0.3789E-02 |
| 425.00 | 0.4098E-01 | 2950.00 | 0.3761E-02 |
| 450.00 | 0.3813E-01 | 2975.00 | 0.3734E-02 |
| 475.01 | 0.3561E-01 | 3000.00 | 0.3707E-02 |
| 500.00 | 0.3336E-01 | 3025.00 | 0.3681E-02 |
| 525.00 | 0.3135E-01 | 3050.00 | 0.3656E-02 |
| 550.00 | 0.2953E-01 | 3075.00 | 0.3631E-02 |

| | | | |
|---------|------------|---------|------------|
| 575.01 | 0.2789E-01 | 3100.00 | 0.3606E-02 |
| 599.99 | 0.2640E-01 | 3125.00 | 0.3582E-02 |
| 625.00 | 0.2505E-01 | 3150.00 | 0.3559E-02 |
| 650.00 | 0.2380E-01 | 3175.00 | 0.3536E-02 |
| 675.00 | 0.2266E-01 | 3200.00 | 0.3513E-02 |
| 700.00 | 0.2160E-01 | 3225.00 | 0.3491E-02 |
| 725.00 | 0.2063E-01 | 3249.99 | 0.3469E-02 |
| 750.00 | 0.1974E-01 | 3274.99 | 0.3448E-02 |
| 775.00 | 0.1892E-01 | 3300.00 | 0.3427E-02 |
| 800.01 | 0.1814E-01 | 3325.00 | 0.3406E-02 |
| 825.00 | 0.1742E-01 | 3350.00 | 0.3386E-02 |
| 850.00 | 0.1675E-01 | 3375.00 | 0.3366E-02 |
| 875.00 | 0.1612E-01 | 3400.00 | 0.3347E-02 |
| 900.00 | 0.1553E-01 | 3425.00 | 0.3327E-02 |
| 925.00 | 0.1497E-01 | 3450.00 | 0.3309E-02 |
| 950.00 | 0.1445E-01 | 3475.00 | 0.3290E-02 |
| 975.00 | 0.1397E-01 | 3499.99 | 0.3272E-02 |
| 1000.00 | 0.1351E-01 | 3525.00 | 0.3254E-02 |
| 1024.99 | 0.1307E-01 | 3550.00 | 0.3236E-02 |
| 1050.00 | 0.1266E-01 | 3575.00 | 0.3219E-02 |
| 1075.00 | 0.1227E-01 | 3599.99 | 0.3202E-02 |
| 1100.00 | 0.1190E-01 | 3625.00 | 0.3185E-02 |
| 1125.01 | 0.1155E-01 | 3650.00 | 0.3169E-02 |
| 1150.00 | 0.1122E-01 | 3675.00 | 0.3152E-02 |
| 1175.00 | 0.1090E-01 | 3700.00 | 0.3136E-02 |
| 1200.00 | 0.1060E-01 | 3725.00 | 0.3120E-02 |
| 1225.00 | 0.1032E-01 | 3750.00 | 0.3105E-02 |
| 1250.00 | 0.1004E-01 | 3775.00 | 0.3089E-02 |
| 1275.00 | 0.9781E-02 | 3800.00 | 0.3074E-02 |
| 1300.00 | 0.9531E-02 | 3825.00 | 0.3059E-02 |
| 1325.00 | 0.9294E-02 | 3849.99 | 0.3045E-02 |
| 1350.00 | 0.9067E-02 | 3875.00 | 0.3030E-02 |
| 1375.00 | 0.8852E-02 | 3900.00 | 0.3016E-02 |
| 1400.00 | 0.8646E-02 | 3925.00 | 0.3002E-02 |
| 1425.00 | 0.8447E-02 | 3950.00 | 0.2988E-02 |
| 1449.99 | 0.8256E-02 | 3975.00 | 0.2974E-02 |
| 1475.00 | 0.8074E-02 | 4000.00 | 0.2960E-02 |
| 1500.00 | 0.7899E-02 | 4025.00 | 0.2947E-02 |
| 1525.00 | 0.7731E-02 | 4050.00 | 0.2933E-02 |
| 1550.00 | 0.7569E-02 | 4074.99 | 0.2920E-02 |
| 1575.00 | 0.7414E-02 | 4100.00 | 0.2907E-02 |
| 1600.00 | 0.7265E-02 | 4125.00 | 0.2895E-02 |
| 1625.00 | 0.7122E-02 | 4150.00 | 0.2882E-02 |
| 1650.00 | 0.6985E-02 | 4175.00 | 0.2869E-02 |
| 1675.01 | 0.6853E-02 | 4200.00 | 0.2857E-02 |
| 1700.00 | 0.6726E-02 | 4225.00 | 0.2845E-02 |
| 1725.00 | 0.6711E-02 | 4250.00 | 0.2833E-02 |
| 1750.00 | 0.6590E-02 | 4275.00 | 0.2821E-02 |
| 1775.00 | 0.6473E-02 | 4300.00 | 0.2809E-02 |
| 1800.00 | 0.6361E-02 | 4325.00 | 0.2797E-02 |
| 1825.00 | 0.6253E-02 | 4350.00 | 0.2786E-02 |
| 1850.00 | 0.6148E-02 | 4375.00 | 0.2774E-02 |
| 1875.00 | 0.6048E-02 | 4400.00 | 0.2763E-02 |
| 1900.00 | 0.5951E-02 | 4425.00 | 0.2752E-02 |
| 1924.99 | 0.5857E-02 | 4450.00 | 0.2741E-02 |
| 1950.00 | 0.5767E-02 | 4475.00 | 0.2730E-02 |
| 1975.00 | 0.5680E-02 | 4499.99 | 0.2719E-02 |
| 2000.00 | 0.5596E-02 | 4525.00 | 0.2708E-02 |
| 2025.00 | 0.5515E-02 | 4550.00 | 0.2698E-02 |
| 2050.00 | 0.5437E-02 | 4575.00 | 0.2687E-02 |
| 2075.00 | 0.5361E-02 | 4599.99 | 0.2677E-02 |
| 2100.00 | 0.5288E-02 | 4625.00 | 0.2667E-02 |
| 2125.00 | 0.5217E-02 | 4650.00 | 0.2656E-02 |
| 2150.00 | 0.5149E-02 | 4675.00 | 0.2646E-02 |
| 2175.00 | 0.5083E-02 | 4700.00 | 0.2636E-02 |
| 2200.00 | 0.5019E-02 | 4725.00 | 0.2627E-02 |
| 2225.00 | 0.4957E-02 | 4750.00 | 0.2617E-02 |
| 2250.00 | 0.4896E-02 | 4775.00 | 0.2607E-02 |
| 2275.00 | 0.4838E-02 | 4800.00 | 0.2597E-02 |

| | | | |
|---------|------------|---------|------------|
| 2300.00 | 0.4782E-02 | 4825.00 | 0.2588E-02 |
| 2325.00 | 0.4727E-02 | 4850.00 | 0.2578E-02 |
| 2350.00 | 0.4674E-02 | 4875.00 | 0.2569E-02 |
| 2375.00 | 0.4623E-02 | 4900.00 | 0.2560E-02 |
| 2400.00 | 0.4573E-02 | 4925.00 | 0.2551E-02 |
| 2425.00 | 0.4524E-02 | 4950.00 | 0.2542E-02 |
| 2449.99 | 0.4477E-02 | 4975.00 | 0.2533E-02 |
| 2475.00 | 0.4432E-02 | 5000.00 | 0.2524E-02 |
| 2500.00 | 0.4387E-02 | | |

***** 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/m ³) | SCALED 3-HOUR CONC (ug/m ³) | SCALED 8-HOUR CONC (ug/m ³) | SCALED 24-HOUR CONC (ug/m ³) | SCALED ANNUAL CONC (ug/m ³) |
|--------------------------|---|--|--|---|--|
| FLAT TERRAIN | 0.3752 | 0.3752 | 0.3752 | 0.3752 | N/A |

DISTANCE FROM SOURCE 70.99 meters

IMPACT AT THE AMBIENT BOUNDARY 0.2542 0.2542 0.2542 0.2542 N/A

DISTANCE FROM SOURCE 1.00 meters

ATTACHMENT C

Cancer Risk Calculations

| Air Quality Health Risk Calculations (Worst-Case) Capalina 120 Unit Multi-Family w/ 4k Retail (PDF Tier 4) | | | | | | |
|--|--|--|---------------|-------------|-------------|-------------|
| From CalEEMD Annual Output | Emission per day (Ton/Total Construction Duration) | | | | | 0.0044 |
| | Construction Start | | 6/1/2024 | | | |
| | Construction Complete | | 4/17/2025 | | | 1.60E-02 |
| | Days | | 320 | | | |
| | Construction Emission per day (lb/day) | | 0.0275 | | | |
| | Annual Duration (Days) | | 365 | | | |
| | Annualized Emission Rate (Grams/Second) | | 1.44E-04 | | | |
| | Project Site Size (Acres) | | 2.51 | | | |
| | Project Site Size (meters^2) | | 10157.60962 | | | |
| | Length of Smalles Side (meters) | | 100.7849672 | | | |
| Used as an input to AERSCREEN | Emission Rate over Grading Area(g/s-m^2) | | | | | 1.42E-08 |
| From AERSCREEN*0.08 | Concentration Annual (ug/m^3) | | | | | 0.02792 |
| Duration | Days | | Days to years | | | |
| | 320 | | 0.876712329 | | | |
| Age (Years) | 3rd Trimester (0.25) | | 0-2 | 2-9 | 2-16 | 16-30 |
| Cair (annual) - From F15 | 0.02792 | | 0.02792 | 0.02792 | 0.02792 | 0.02792 |
| Breathing Rate per agegroup BR/BW (Page 5-25) | 361 | | 1090 | 861 | 745 | 335 |
| A (Default is 1) | 1 | | 1 | 1 | 1 | 1 |
| Exposure Frequency = EF (days/365days) | 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 |
| Dose-inh | 0.00000968 | | 0.00002922 | 0.00002308 | 0.00001997 | 0.00000898 |
| Construction Days | 320 | | 0.876712329 | | | |
| potency factor for Diesel | 1.1 | | 1.1 | 1.1 | 1.1 | 1.1 |
| Age Sensitivity Factor | 10 | | 10 | 3 | 3 | 1 |
| ED | 0.25 | | 0.876712329 | 0.876712329 | 0.876712329 | 0.876712329 |
| AT | 70 | | 70 | 70 | 70 | 70 |
| FAH | 0.85 | | 0.85 | 0.72 | 0.72 | 0.73 |
| Risk for Each Age Group | 3.23108E-07 | | 3.42124E-06 | 6.86745E-07 | 5.94222E-07 | 9.03038E-08 |
| Risk per million Exposed | 0.32310779 | | 3.421242274 | 0.686744688 | 0.594221594 | 0.09030381 |
| Cancer Risk Over Construction Duration | 3.74 | | | | | |

ATTACHMENT D

EMFAC – VMT per Trip Calculation

EMFAC2014 (v1.0.7) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips and DIURN

| Region | CalYr | VehClass | MdlYr | Speed | Fuel | Population | VMT | Trips |
|----------------|-------|----------|------------|------------|------|-------------|-------------|-------------|
| San Diego | 2025 | HHDT | Aggregated | Aggregated | GAS | 161.1216337 | 21202.37807 | 3223.721647 |
| San Diego | 2025 | HHDT | Aggregated | Aggregated | DSL | 15341.84567 | 2103842.221 | 0 |
| San Diego | 2025 | LDA | Aggregated | Aggregated | GAS | 1430879.21 | 47587916.84 | 9062515.432 |
| San Diego | 2025 | LDA | Aggregated | Aggregated | DSL | 18230.05635 | 610522.5588 | 114299.8171 |
| San Diego | 2025 | LDA | Aggregated | Aggregated | ELEC | 102949.8741 | 4362999.303 | 668758.3291 |
| San Diego | 2025 | LDT1 | Aggregated | Aggregated | GAS | 110056.6214 | 3351787.675 | 665740.3764 |
| San Diego | 2025 | LDT1 | Aggregated | Aggregated | DSL | 135.5653413 | 2803.107134 | 658.3286144 |
| San Diego | 2025 | LDT1 | Aggregated | Aggregated | ELEC | 41.86046771 | 1338.281949 | 253.6785286 |
| San Diego | 2025 | LDT2 | Aggregated | Aggregated | GAS | 445728.9448 | 15377108.99 | 2820576.047 |
| San Diego | 2025 | LDT2 | Aggregated | Aggregated | DSL | 944.5915358 | 33384.93915 | 6012.222933 |
| San Diego | 2025 | LHDT1 | Aggregated | Aggregated | GAS | 17137.47188 | 468069.7958 | 255322.7962 |
| San Diego | 2025 | LHDT1 | Aggregated | Aggregated | DSL | 23103.06152 | 724642.3549 | 290607.4503 |
| San Diego | 2025 | LHDT2 | Aggregated | Aggregated | GAS | 4048.832368 | 139572.0706 | 60321.56952 |
| San Diego | 2025 | LHDT2 | Aggregated | Aggregated | DSL | 8965.43705 | 322602.574 | 112773.9196 |
| San Diego | 2025 | MCY | Aggregated | Aggregated | GAS | 70674.39783 | 501031.3352 | 141334.6608 |
| San Diego | 2025 | MDV | Aggregated | Aggregated | GAS | 267677.4564 | 8534402.663 | 1665093.779 |
| San Diego | 2025 | MDV | Aggregated | Aggregated | DSL | 5742.887036 | 206955.8564 | 36633.47691 |
| San Diego | 2025 | MH | Aggregated | Aggregated | GAS | 8633.503985 | 64191.89208 | 863.6957387 |
| San Diego | 2025 | MH | Aggregated | Aggregated | DSL | 2309.531209 | 17748.26353 | 230.9531209 |
| San Diego | 2025 | MHDT | Aggregated | Aggregated | GAS | 3092.563169 | 161145.5943 | 61876.00388 |
| San Diego | 2025 | MHDT | Aggregated | Aggregated | DSL | 25605.17262 | 1301919.202 | 0 |
| San Diego | 2025 | OBUS | Aggregated | Aggregated | GAS | 1716.976671 | 92464.33544 | 34353.26924 |
| San Diego | 2025 | OBUS | Aggregated | Aggregated | DSL | 935.0309742 | 73876.47022 | 0 |
| San Diego | 2025 | SBUS | Aggregated | Aggregated | GAS | 438.5086625 | 19991.26012 | 1754.03465 |
| San Diego | 2025 | SBUS | Aggregated | Aggregated | DSL | 1213.170137 | 45957.63464 | 0 |
| San Diego | 2025 | UBUS | Aggregated | Aggregated | GAS | 472.4052031 | 63912.54677 | 1889.620812 |
| San Diego | 2025 | UBUS | Aggregated | Aggregated | DSL | 690.1969245 | 93377.97918 | 2760.787698 |
| Total | | | | | | 86284768.12 | 16007853.97 | |
| Total VMT/Trip | | | | | | | 5.390152126 | |