Appendix A Air Quality and GHG Background and Modeling

Appendix

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Air Quality and Greenhouse Gas Background and Modeling Data

AIR QUALITY

Climate/Meteorology

SOUTH COAST AIR BASIN

The project site lies in the South Coast Air Basin (SoCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB is in a coastal plain with connecting broad valleys and low hills and is bounded by the Pacific Ocean in the southwest quadrant, with high mountains forming the remainder of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. This usually mild weather pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds.[1]

Temperature and Precipitation

The annual average temperature varies little throughout the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The lowest average temperature for the City of Irwindale is 45°F in January, and the highest average temperature is 87°F in August.[2] Overall mean average temperature for the City is 76°F.[3]

In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from November through April. Summer rainfall is normally restricted to widely scattered thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall historically averages 22.36 inches per year in the City. [4]

Humidity

Although the SoCAB has a semiarid climate, the air near the earth's surface is typically moist because of the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the

[1] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.
[2] USA.com. 2021. Irwindale, CA Weather. Accessed August 13. http://www.usa.com/irwindale-ca-weather.htm.
[3] USA.com. 2021. Irwindale, CA Weather. Accessed August 13. http://www.usa.com/irwindale-ca-weather.htm.
[4] USA.com. 2021. Irwindale, CA Weather. Accessed August 13. http://www.usa.com/irwindale-ca-weather.htm.

SoCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog, especially along the coast, are frequent. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the SoCAB. [5]

Wind

Wind patterns across the south coastal region are characterized by westerly or southwesterly onshore winds during the day and by easterly or northeasterly breezes at night. Wind speed is somewhat greater during the dry summer months than during the rainy winter season.

Between periods of wind, periods of air stagnation may occur, both in the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During the winter and fall months, surface high-pressure systems over the SoCAB, combined with other meteorological conditions, can result in very strong, downslope Santa Ana winds. These winds normally continue a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the transport and diffusion of pollutants by inhibiting their eastward transport. Air quality in the SoCAB generally ranges from fair to poor and is similar to air quality in most of coastal southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions. [6]

Inversions

In conjunction with the two characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, there are two similarly distinct types of temperature inversions that control the vertical depth through which pollutants are mixed. These are the marine/subsidence inversion and the radiation inversion. The combination of winds and inversions are critical determinants in leading to the highly degraded air quality in summer and the generally good air quality in the winter in the project area. [7]

Air Quality Regulations

The proposed project has the potential to release gaseous emissions of criteria pollutants and dust into the ambient air; therefore, it falls under the ambient air quality standards promulgated at the local, state, and federal levels. The project site is in the SoCAB and is subject to the rules and regulations imposed by the South Coast Air Quality Management District (South Coast AQMD). However, South Coast AQMD reports to California Air Resources board (CARB), and all criteria emissions are also governed by the California and national

[5] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning..

[6] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[7] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

Ambient Air Quality Standards (AAQS). Federal, state, regional, and local laws, regulations, plans, or guidelines that are potentially applicable to the proposed project are summarized below.

AMBIENT AIR QUALITY STANDARDS

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National AAQS and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 1, these pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), and lead (Pb). In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
Ozone (O_3)[3]	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.
	8 hours	0.070 ppm	0.070 ppm	
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.
	8 hours	9.0 ppm	9 ppm	
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.
	1 hour	0.18 ppm	0.100 ppm	
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources
	1 hour	0.25 ppm	0.075 ppm	
	24 hours	0.04 ppm	0.14 ppm	
Respirable Coarse Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	50 µg/m^3	150 µg/m^3	
Respirable Fine Particulate Matter ($PM_{2.5}$)[4]	Annual Arithmetic Mean	12 µg/m^3	12 µg/m^3	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).
	24 hours	*	35 µg/m^3	
Lead (Pb)	30-Day Average	1.5 µg/m^3	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.
	Calendar Quarter	*	1.5 µg/m^3	
	Rolling 3-Month Average	*	0.15 µg/m^3	
Sulfates (SO_4)[5]	24 hours	25 µg/m^3	*	Industrial processes.
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	No Federal Standard	Visibility-reducing particles consist of suspended particulate matter, which 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 greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.
Hydrogen Sulfide	1 hour	0.03 ppm	No Federal Standard	Hydrogen sulfide (H_2S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation.
Vinyl Chloride	24 hours	0.01 ppm	No Federal Standard	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Table 1 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard[1]	Federal Primary Standard[2]	Major Pollutant Sources

Source: California Air Resources Board (CARB). 2016, October 1. Ambient Air Quality Standards. https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf.
Notes: ppm: parts per million; µg/m^3: micrograms per cubic meter
* Standard has not been established for this pollutant/duration by this entity.
1 California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2 National standards (other than O_3, PM, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
3 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
4 On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
5 On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

California has also adopted a host of other regulations that reduce criteria pollutant emissions, including:

- AB 1493: Pavley Fuel Efficiency Standards
- Title 20 California Code of Regulations (CCR): Appliance Energy Efficiency Standards
- Title 24, Part 6, CCR: Building and Energy Efficiency Standards
- Title 24, Part 11, CCR: Green Building Standards Code

CRITERIA AIR POLLUTANTS

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state law. Air pollutants are categorized as primary or secondary pollutants. Primary air pollutants are those that are emitted directly from sources and include CO, VOC, NO_2, SO_X, PM_{10}, $PM_{2.5}$, and Pb. Of these, CO, SO_2, NO_2, PM_{10}, and $PM_{2.5}$ are "criteria air pollutants," which means that ambient air quality standards (AAQS) have been established for them. VOC and oxides of nitrogen (NO_x) are air pollutant precursors that form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. Ozone (O_3) and NO_2 are the principal secondary pollutants. A description of each of the primary and secondary criteria air pollutants and their known health effects is presented below.

Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. CO is a primary criteria air pollutant. CO concentrations tend to be the highest during winter mornings with little to no wind, when surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion, engines and motor vehicles operating at slow speeds are the primary source of CO in the SoCAB. The highest ambient CO concentrations are generally found near traffic-congested corridors and intersections. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation.

[8,9] The SoCAB is designated as being in attainment under the California AAQS and attainment (serious maintenance) under the National AAQS.[10]

Volatile Organic Compounds (VOC) are compounds composed primarily of atoms of hydrogen and carbon. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons. Other sources of VOCs include evaporative emissions associated with the use of paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. There are no ambient air quality standards established for VOCs. However, because they contribute to the formation of ozone (O_3), South Coast AQMD has established a significance threshold for this pollutant.[11]

Nitrogen Oxides (NO_x) are a byproduct of fuel combustion and contribute to the formation of O_3, PM_{10}, and $PM_{2.5}$. The two major forms of NO_x are nitric oxide (NO) and nitrogen dioxide (NO_2). The principal form of NO_2 produced by combustion is NO, but NO reacts with oxygen to form NO_2, creating the mixture of NO and NO_2 commonly called NO_x. NO_2 acts as an acute irritant and, in equal concentrations, is more injurious than NO. At atmospheric concentrations, however, NO_2 is only potentially irritating. There is some indication of a relationship between NO_2 and chronic pulmonary fibrosis. Some increase in bronchitis in children (two and three years old) has also been observed at concentrations below 0.3 part per million (ppm). NO_2 absorbs blue light; the result is a brownish-red cast to the atmosphere and reduced visibility. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure.[12,13] The SoCAB is designated as an attainment (maintenance) area under the National AAQS and attainment area under the California AAQS.[14]

Sulfur Dioxide (SO_2) is a colorless, pungent, irritating gas formed by the combustion of sulfurous fossil fuels. It enters the atmosphere as a result of burning high-sulfur-content fuel oils and coal and from chemical processes at chemical plants and refineries. Gasoline and natural gas have very low sulfur content and do not release significant quantities of SO_2.[15,16] When sulfur dioxide forms sulfates (SO_4) in the atmosphere, together

8 South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

9 US Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Accessed July 29. https://www.epa.gov/criteria-air-pollutants.

10 California Air Resources Board (CARB). 2021, Area Designations Maps/State and National. Accessed July 29, 2021. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

11 South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

12 South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

13 US Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Accessed July 29. https://www.epa.gov/criteria-air-pollutants.

14 California Air Resources Board (CARB). 2021, Area Designations Maps/State and National. Accessed July 29, 2021. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

15 South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

16 US Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Accessed July 29. https://www.epa.gov/criteria-air-pollutants.

these pollutants are referred to as sulfur oxides (SO_X). Thus, SO_2 is both a primary and secondary criteria air pollutant. At sufficiently high concentrations, SO_2 may irritate the upper respiratory tract. At lower concentrations and when combined with particulates, SO_2 may do greater harm by injuring lung tissue. The SoCAB is designated as attainment under the California and National AAQS.[17]

Suspended Particulate Matter (PM_{10} and $PM_{2.5}$) consists of finely divided solids or liquids such as soot, dust, aerosols, fumes, and mists. Two forms of fine particulates are now recognized and regulated. Inhalable coarse particles, or PM_{10}, include the particulate matter with an aerodynamic diameter of 10 microns (i.e., 10 millionths of a meter or 0.0004 inch) or less. Inhalable fine particles, or $PM_{2.5}$, have an aerodynamic diameter of 2.5 microns (i.e., 2.5 millionths of a meter or 0.0001 inch) or less. Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. However, wind action on arid landscapes also contributes substantially to local particulate loading (i.e., fugitive dust). Both PM_{10} and $PM_{2.5}$ may adversely affect the human respiratory system, especially in people who are naturally sensitive or susceptible to breathing problems.[18]

The US Environmental Protection Agency's (EPA) scientific review concluded that $PM_{2.5}$, which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to health effects and at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease such as asthma); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms.[19] There has been emerging evidence that even smaller particulates with an aerodynamic diameter of <0.1 microns or less (i.e., ≤0.1 millionths of a meter or <0.000004 inch), known as ultrafine particulates (UFPs), have human health implications, because UFPs toxic components may initiate or facilitate biological processes that may lead to adverse effects to the heart, lungs, and other organs.[20] However, the EPA or CARB have yet to adopt AAQS to regulate these particulates. Diesel particulate matter (DPM) is classified by the CARB as a carcinogen.[21] Particulate matter can also cause environmental effects such as visibility impairment,[22] environmental damage,[23]

[17] California Air Resources Board (CARB). 2021, Area Designations Maps/State and National. Accessed July 29, 2021. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

[18] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[19] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[20] South Coast Air Quality Management District (South Coast AQMD). 2013, February. 2012 Final Air Quality Management Plan. http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan.

[21] California Air Resources Board (CARB). 1998, April 22. The Report on Diesel Exhaust. http://www.arb.ca.gov/toxics/dieseltac/de-fnds.htm.

[22] $PM_{2.5}$ is the main cause of reduced visibility (haze) in parts of the United States.

[23] Particulate matter can be carried over long distances by wind and then settle on ground or water, making lakes and streams acidic; changing the nutrient balance in coastal waters and large river basins; depleting the nutrients in soil; damaging sensitive forests and farm crops; and affecting the diversity of ecosystems.

and aesthetic damage.[24,25,26] The SoCAB is in nonattainment and serious nonattainment for $PM_{2.5}$ under the California and National AAQS, respectively. For PM_{10}, the SoCAB is nonattainment under the California AAQS and in attainment (serious maintenance) under the National AAQS.[27]

Ozone (O_3) is commonly referred to as "smog" and is a gas that is formed when VOCs and NO_x, both by-products of internal combustion engine exhaust, undergo photochemical reactions in the presence of sunlight. O_3 is a secondary criteria air pollutant. O_3 concentrations are generally highest during the summer months when direct sunlight, light winds, and warm temperatures create favorable conditions for the formation of this pollutant. O_3 poses a health threat to those who already suffer from respiratory diseases as well as to healthy people. Breathing O_3 can trigger a variety of health problems, including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level O_3 also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. O_3 also affects sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. In particular, O_3 harms sensitive vegetation during the growing season.[28,29] The SoCAB is designated as extreme nonattainment under the National AAQS (8-hour) and as nonattainment under the California AAQS (1-hour and 8-hour).[30]

Lead (Pb) is a metal found naturally in the environment as well as in manufactured products. Once taken into the body, lead distributes throughout the body in the blood and accumulates in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. Lead exposure also affects the oxygen-carrying capacity of the blood. The effects of lead most commonly encountered in current populations are neurological effects in children and cardiovascular effects in adults (e.g., high blood pressure and heart disease). Infants and young children are especially sensitive to even low levels of lead, which may contribute to behavioral problems, learning deficits, and lowered IQ.[31,32] The major sources of lead emissions have historically been mobile and

[24] Particulate matter can stain and damage stone and other materials, including culturally important objects such as statues and monuments.

[25] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[26] US Environmental Protection Agency (USEPA). 2019, June 11 (updated). Criteria Air Pollutants. https://www.epa.gov/criteria-air-pollutants.

[27] CARB approved the South Coast AQMD's request to redesignate the SoCAB from serious nonattainment for PM_{10} to attainment for PM_{10} under the National AAQS on March 25, 2010, because the SoCAB has not violated federal 24-hour PM_{10} standards during the period from 2004 to 2007. In June 2013, the EPA approved the State of California's request to redesignate the PM_{10} nonattainment area to attainment of the PM_{10} National AAQS, effective on July 26, 2013.

[28] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[29] US Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Accessed July 29. https://www.epa.gov/criteria-air-pollutants.

[30] California Air Resources Board (CARB). 2021, Area Designations Maps/State and National. Accessed July 29, 2021. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations.

[31] South Coast Air Quality Management District (South Coast AQMD). 2005, May. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf.

[32] US Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Accessed July 29. https://www.epa.gov/criteria-air-pollutants.

industrial sources. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector dramatically declined by 95 percent between 1980 and 1999, and levels of lead in the air decreased by 94 percent between 1980 and 1999. Today, the highest levels of lead in air are usually found near lead smelters. The major sources of lead emissions today are ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. However, in 2008 the EPA and CARB adopted stricter lead standards, and special monitoring sites immediately downwind of lead sources recorded very localized violations of the new state and federal standards.[33] As a result of these violations, the Los Angeles County portion of the SoCAB is designated nonattainment under the National AAQS for lead.[34] Because emissions of lead are found only in projects that are permitted by South Coast AQMD, lead is not a pollutant of concern for the project.

TOXIC AIR CONTAMINANTS

The public's exposure to air pollutants classified as toxic air contaminants (TACs) is a significant environmental health issue in California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant (HAP) pursuant to Section 112(b) of the federal Clean Air Act (42 United States Code §7412[b]) is a toxic air contaminant. Under state law, the California Environmental Protection Agency (Cal/EPA), acting through CARB, is authorized to identify a substance as a TAC if it determines that the substance is an air pollutant that may cause or contribute to an increase in mortality or to an increase in serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions. To date, CARB has established formal control measures for 11 TACs, all of which are identified as having no safe threshold.

Air toxics from stationary sources are also regulated in California under the Air Toxics "Hot Spot" Information and Assessment Act of 1987. Under AB 2588, toxic air contaminant emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority

[33] Source-oriented monitors record concentrations of lead at lead-related industrial facilities in the SoCAB, which include Exide Technologies in the City of Commerce; Quemetco, Inc., in the City of Industry; Trojan Battery Company in Santa Fe Springs; and Exide Technologies in Vernon. Monitoring conducted between 2004 through 2007 showed that the Trojan Battery Company and Exide Technologies exceed the federal standards (South Coast AQMD 2012).

[34] South Coast Air Quality Management District (South Coast AQMD). 2012, May 4. Final 2012 Lead State Implementation Plan: Los Angeles County. http://www3.aqmd.gov/hb/attachments/2011-2015/2012May/2012-May4-030.pdf.

facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

By the December 1999 update to the TAC list, CARB had designated 244 compounds as TACs.[35] Subsequently, the list was updated in 2007 to include Environmental Tobacco Smoke.[36] Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines.

Diesel Particulate Matter

In 1998, CARB identified particulate emissions from diesel-fueled engines (diesel PM) as a TAC. Previously, the individual chemical compounds in diesel exhaust were considered TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

CARB has promulgated the following specific rules to limit TAC emissions:

- 13 CCR Chapter 10, Section 2485, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling
- 13 CCR Chapter 10, Section 2480, Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools
- 13 CCR Section 2477 and Article 8, Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate

Community Risk

In addition, to reduce exposure to TACs, CARB developed and approved the *Air Quality and Land Use Handbook: A Community Health Perspective* [37] to provide guidance regarding the siting of sensitive land uses in the vicinity of freeways, distribution centers, rail yards, ports, refineries, chrome-plating facilities, dry cleaners, and gasoline-dispensing facilities. This guidance document was developed to assess compatibility and associated health risks when placing sensitive receptors near existing pollution sources. CARB's recommendations on the siting of new sensitive land uses were based on a compilation of recent studies that evaluated data on the adverse health effects from proximity to air pollution sources. The key observation in these studies is that proximity to air pollution sources substantially increases exposure and the potential for adverse health effects. There are three carcinogenic toxic air contaminants that constitute the majority of the known health risks from motor vehicle traffic, DPM from trucks, and benzene and 1,3-butadiene from passenger vehicles. CARB recommendations

[35] California Air Resources Board (CARB). 1999. California Air Resources Board (CARB). Final Staff Report: Update to the Toxic Air Contaminant List. https://ww3.arb.ca.gov/toxics/id/finalstaffreport.htm.
[36] California Air Resources Board (CARB). 2021, July 29 (accessed). CARB Identified Toxic Air Contaminants. https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants.
[37] California Air Resources Board (CARB). 2005, April. Air Quality and Land Use Handbook: A Community Health Perspective. https://www.arb.ca.gov/ch/handbook.pdf.

are based on data that show that localized air pollution exposures can be reduced by as much as 80 percent by following CARB minimum distance separations.

Multiple Airborne Toxics Exposure Study (MATES)

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on ambient concentrations of TACs and estimated the potential health risks from air toxics in the SoCAB. In 2008, the South Coast AQMD conducted its third update to the MATES study (MATES III). The results showed that the overall risk for excess cancer from a lifetime exposure to ambient levels of air toxics was about 1,200 in a million. The largest contributor to this risk was diesel exhaust, accounting for 84 percent of the cancer risk.[38]

The South Coast AQMD recently released the fourth update (MATES IV). The results showed that the overall monitored risk for excess cancer from a lifetime exposure to ambient levels of air toxics decreased to approximately 418 in one million. Compared to the 2008 MATES III, monitored excess cancer risks decreased by approximately 65 percent. Approximately 90 percent of the risk is attributed to mobile sources while 10 percent is attributed to TACs from stationary sources, such as refineries, metal processing facilities, gas stations, and chrome plating facilities. The largest contributor to this risk was diesel exhaust, accounting for approximately 68 percent of the air toxics risk. Compared to MATES III, MATES IV found substantial improvement in air quality and associated decrease in air toxics exposure. As a result, the estimated basin-wide population-weighted risk decreased by approximately 57 percent compared to the analysis done for the MATES III time period.[39]

The Office of Environmental Health Hazard Assessment (OEHHA) updated the guidelines for estimating cancer risks on March 6, 2015. The new method utilizes higher estimates of cancer potency during early life exposures, which result in a higher calculation of risk. There are also differences in the assumptions on breathing rates and length of residential exposures. When combined together, the South Coast AQMD estimates that risks for a given inhalation exposure level will be about 2.7 times higher using the proposed updated methods identified in MATES IV (e.g., 2.7 times higher than 418 in one million overall excess cancer risk).[40]

Air Quality Management Planning

The South Coast AQMD is the agency responsible for preparing the air quality management plan (AQMP) for the SoCAB in coordination with the Southern California Association of Governments (SCAG). Since 1979, a number of AQMPs have been prepared.

[38] South Coast Air Quality Management District (South Coast AQMD). 2008, September. Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES III). https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iii.

[39] South Coast Air Quality Management District (South Coast AQMD). 2015, October 3. Final Report Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES IV). http://www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf.

[40] South Coast Air Quality Management District (South Coast AQMD). 2015, October 3. Final Report Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES IV). http://www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf.

2016 AQMP

On March 3, 2017, the South Coast AQMD adopted the 2016 AQMP as an update to the 2012 AQMP. The 2016 AQMP addresses strategies and measures to attain the following National AAQS:

- 2008 National 8-hour ozone standard by 2031,
- 2012 National annual $PM_{2.5}$ standard by 2025[41],
- 2006 National 24-hour $PM_{2.5}$ standard by 2019,
- 1997 National 8-hour ozone standard by 2023, and the
- 1979 National 1-hour ozone standard by year 2022.

It is projected that total NO_X emissions in the SoCAB would need to be reduced to 150 tons per day (tpd) by year 2023 and to 100 tpd in year 2031 to meet the 1997 and 2008 federal 8-hour ozone standards. The strategy to meet the 1997 federal 8-hour ozone standard would also lead to attaining the 1979 federal 1-hour ozone standard by year 2022[42], which requires reducing NO_X emissions in the SoCAB to 250 tpd. This is approximately 45 percent additional reductions above existing regulations for the 2023 ozone standard and 55 percent additional reductions above existing regulations to meet the 2031 ozone standard.

Reducing NO_X emissions would also reduce $PM_{2.5}$ concentrations in the SoCAB. However, as the goal is to meet the 2012 federal annual $PM_{2.5}$ standard no later than year 2025, the South Coast AQMD is seeking to reclassify the SoCAB from "moderate" to "serious" nonattainment under this federal standard. A "moderate" non-attainment would require meeting the 2012 federal standard by no later than 2021.

Overall, the 2016 AQMP is composed of stationary and mobile-source emission reductions from regulatory control measures, incentive-based programs, co-benefits from climate programs, mobile-source strategies, and reductions from federal sources such as aircrafts, locomotives, and ocean-going vessels. Strategies outlined in the 2016 AQMP would be implemented in collaboration between CARB and the EPA. [43]

LEAD STATE IMPLEMENTATION PLAN

In 2008, EPA designated the Los Angeles County portion of the SoCAB nonattainment under the federal lead (Pb) classification due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard. The rest of the SoCAB, outside the Los Angeles County nonattainment area remains in attainment of the new standard. On May 24, 2012, CARB approved the SIP revision for the federal lead standard, which the EPA revised in 2008. Lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011. The SIP revision was submitted to EPA for approval.

[41] The 2016 AQMP requests a reclassification from moderate to serious non-attainment for the 2012 National $PM_{2.5}$ standard.
[42] South Coast Air Quality Management District (South Coast AQMD). 2017, March 4. Final 2016 Air Quality Management Plan. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15.
[43] South Coast Air Quality Management District (South Coast AQMD). 2017, March 4. Final 2016 Air Quality Management Plan. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15.

AREA DESIGNATIONS

The AQMP provides the framework for air quality basins to achieve attainment of the state and federal ambient air quality standards through the State Implementation Plan (SIP). Areas are classified as attainment or nonattainment areas for particular pollutants, depending on whether they meet ambient air quality standards. Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

- **Unclassified:** a pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or nonattainment.
- **Attainment:** a pollutant is in attainment if the CAAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment:** a pollutant is in nonattainment if there was at least one violation of a state AAQS for that pollutant in the area.
- **Nonattainment/Transitional:** a subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

The attainment status for the SoCAB is shown in Table 2. The SoCAB is designated in attainment of the California AAQS for sulfates. The SoCAB is designated as nonattainment for lead (Los Angeles County only) under the National AAQS.

Table 2 Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	Nonattainment	No Federal Standard
Ozone – 8-hour	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment (Serious Maintenance)
$PM_{2.5}$	Nonattainment	Serious Nonattainment
CO	Attainment	Attainment
NO_2	Attainment	Attainment (Maintenance)
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only)[1]
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2021a.

[1] In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new federal and existing state AAQS as a result of large industrial emitters. Remaining areas in the SoCAB are unclassified.

Existing Ambient Air Quality

Existing levels of ambient air quality and historical trends and projections in the vicinity of the project site are best documented by measurements taken by the South Coast AQMD. The project site is located within Source Receptor Area (SRA) 9 – East San Gabriel Valley. The air quality monitoring station closest to the project site

is the Azusa Monitoring Station. The most current five years of data are included in Table 3, *Ambient Air Quality Monitoring Summary*. The data show regular violations of the state and federal O_3, state PM_{10}, and federal $PM_{2.5}$ standards in the last five years.

Table 3 Ambient Air Quality Monitoring Summary

Pollutant/Standard	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations				
	2015	2016	2017	2018	2019
Ozone (O_3)[1]					
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	21	30	38	24	34
State 8-hour ≥ 0.07 ppm (days exceed threshold)	28	40	64	43	43
Federal 8-Hour > 0.075 ppm (days exceed threshold)	17	25	43	23	21
Max. 1-Hour Conc. (ppm)	0.122	0.146	0.152	0.139	0.123
Max. 8-Hour Conc. (ppm)	0.096	0.106	0.114	0.100	0.094
Nitrogen Dioxide (NO_2)[1]					
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0	0	0	0
Federal 1-Hour ≥ 0.100 ppm (days exceed threshold)	0	0	0	0	0
Max. 1-Hour Conc. (ppb)	0.0710	0.0742	0.0656	0.0708	0.0597
Coarse Particulates (PM_{10})[1]					
State 24-Hour > 50 µg/m³ (days exceed threshold)	12	12	7	10	4
Federal 24-Hour > 150 µg/m³ (days exceed threshold)	0	0	0	0	0
Max. 24-Hour Conc. (µg/m³)	101.0	74.0	83.9	78.3	82.0
Fine Particulates ($PM_{2.5}$)[1]					
Federal 24-Hour > 35 µg/m³ (days exceed threshold)	2	0	0	1	1
Max. 24-Hour Conc. (µg/m³)	70.3	32.1	24.9	41.8	70.3

Source: California Air Resources Board (CARB). 2021. Air Pollution Data Monitoring Cards (2015, 2016, 2017, 2018, and 2019). https://www.arb.ca.gov/adam/topfour/topfour1.php
Notes: ppm = parts per million; ppb = parts per billion; µg/m³ = micrograms per cubic meter
[1] Data from the Azusa Monitoring Station in Azusa.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardio-respiratory diseases.

Residential areas are also considered to be sensitive receptors to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. Schools are also considered sensitive receptors, as children are present for extended durations and engage in regular outdoor activities. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation. Industrial and commercial areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent, as the majority of the workers tend to stay indoors most of the time. In addition, the working population is generally the healthiest segment of the public. The nearest sensitive receptors to the proposed project site include a single family residence to the north near the railroad

tracks and East Cypress Street. Other nearby sensitive receptors are the residences to the southwest, south, east, and northeast of the project site.

Methodology

Projected construction-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0.[44] CalEEMod compiles an emissions inventory of construction (fugitive dust, off-gas emissions, on-road emissions, and off-road emissions), area sources, indirect emissions from energy use, mobile sources, indirect emissions from waste disposal (annual only), and indirect emissions from water/wastewater (annual only) use.

Thresholds of Significance

The analysis of the proposed project's air quality impacts follows the guidance and methodologies recommended in South Coast AQMD's *CEQA Air Quality Handbook* and the significance thresholds on the South Coast AQMD's website.[45] CEQA allows the significance criteria established by the applicable air quality management or air pollution control district to be used to assess impacts of a project on air quality. The South Coast AQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds listed above, projects are also subject to the AAQS. These are addressed though an analysis of localized CO impacts and localized significance thresholds (LSTs).

REGIONAL SIGNIFICANCE THRESHOLDS

The South Coast AQMD has adopted regional construction and operational emissions thresholds to determine a project's cumulative impact on air quality in the SoCAB. Table 4 lists South Coast AQMD's regional significance thresholds that are applicable for all projects uniformly regardless of size or scope. There is growing evidence that although ultrafine particulates contribute a very small portion of the overall atmospheric mass concentration, they represent a greater proportion of the health risk from PM. However, the EPA or CARB have not yet adopted AAQS to regulate ultrafine particulates; therefore, South Coast AQMD has not developed thresholds for them.

[44] California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model (CalEEMod). Version 2020.4.0. Prepared by: BREEZE Software, A Division of Trinity Consultants in collaboration with South Coast Air Quality Management District and the California Air Districts.

[45] South Coast Air Quality Management District (South Coast AQMD). 2019, April (revised). South Coast AQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

Table 4 South Coast AQMD Significance Thresholds

Air Pollutant	Construction Phase	Operational Phase
Reactive Organic Gases (ROGs)/ Volatile Organic Compounds (VOCs)	75 lbs/day	55 lbs/day
Nitrogen Oxides (NO_X)	100 lbs/day	55 lbs/day
Carbon Monoxide (CO)	550 lbs/day	550 lbs/day
Sulfur Oxides (SO_X)	150 lbs/day	150 lbs/day
Particulates (PM_{10})	150 lbs/day	150 lbs/day
Particulates ($PM_{2.5}$)	55 lbs/day	55 lbs/day

Source: South Coast AQMD. 2019. South Coast AQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

Projects that exceed the regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems:

- Linked to increased cancer risk ($PM_{2.5}$, TACs)
- Aggravates respiratory disease (O_3, $PM_{2.5}$)
- Increases bronchitis (O_3, $PM_{2.5}$)
- Causes chest discomfort, throat irritation, and increased effort to take a deep breath (O_3)
- Reduces resistance to infections and increases fatigue (O_3)
- Reduces lung growth in children ($PM_{2.5}$)
- Contributes to heart disease and heart attacks ($PM_{2.5}$)
- Contributes to premature death (O_3, $PM_{2.5}$)
- Linked to lower birth weight in newborns ($PM_{2.5}$) [46]

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of $PM_{2.5}$ is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists responsible for a landmark children's health study found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB.[47]

Mass emissions in Table 4 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. Therefore, regional emissions from a single project do not single-handedly trigger a regional health impact. The South Coast AQMD is the primary agency responsible for ensuring the health and welfare of sensitive individuals to elevated concentrations of air quality in the SoCAB.

[46] South Coast Air Quality Management District (South Coast AQMD). 2011a, December. The Health Effects of Air Pollution. http://www.aqmd.gov/docs/default-source/publications/brochures/the-health-effects-of-air-pollution-brochure.pdf.

[47] South Coast Air Quality Management District (South Coast AQMD). 2015, October. "Blueprint for Clean Air: 2016 AQMP White Paper." 2016 AQMP White Papers Web Page. https://www.aqmd.gov/docs/default-source/Agendas/aqmp/white-paper-working-groups/wp-blueprint-final.pdf?sfvrsn=2.

To achieve the health-based standards established by the EPA, the South Coast AQMD prepares an AQMP that details regional programs to attain the AAQS.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the SoCAB and in the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hot spot analysis conducted for the attainment by the South Coast AQMD for busiest intersections in Los Angeles during the peak morning and afternoon periods plan did not predict a violation of CO standards.[48] As identified in the South Coast AQMD's 2003 AQMP[49] and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in previous years, prior to redesignation, were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact.[50]

LOCALIZED SIGNIFICANCE THRESHOLDS

The South Coast AQMD developed LSTs for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at the project site (offsite mobile-source emissions are not included in the LST analysis). LSTs represent the maximum emissions at a project site that are not expected to cause or contribute to an exceedance of the most stringent federal or state AAQS and are shown in Table 5.

[48] The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning peak hour and LOS F in the evening peak hour.

[49] South Coast Air Quality Management District (South Coast AQMD). 2003, August. 2003 Air Quality Management Plan. Appendix V. https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp.

[50] Bay Area Air Quality Management District (BAAQMD). 2017, May. California Environmental Quality Act Air Quality Guidelines. http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en.

Table 5 South Coast AQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO_2 Standard (CAAQS)	0.18 ppm
Annual NO_2 Standard (CAAQS)	0.03 ppm
24-Hour PM_{10} Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour $PM_{2.5}$ Standard – Construction (South Coast AQMD)[1]	10.4 µg/m^3
24-Hour PM_{10} Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3
24-Hour $PM_{2.5}$ Standard – Operation (South Coast AQMD)[1]	2.5 µg/m^3

Source: South Coast Air Quality Management District (South Coast AQMD). 2019, April (revised). South Coast AQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf..
ppm – parts per million; µg/m^3 – micrograms per cubic meter
[1] Threshold is based on South Coast AQMD Rule 403. Since the SoCAB is in nonattainment for PM_{10} and $PM_{2.5}$, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

To assist lead agencies, South Coast AQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated onsite that would trigger the levels shown in Table 5 for projects under 5-acres. These "screening-level" LSTs tables are the localized significance thresholds for all projects of five acres and less; however, it can be used as screening criteria for larger projects to determine whether or not dispersion modeling may be required to compare concentrations of air pollutants generated by the project to the localized concentrations shown in Table 5.

In accordance with South Coast AQMD's LST methodology, the screening-level construction LSTs are based on the acreage disturbed per day based on equipment use while the screening-level operation LSTs are based on a 5-acre site. The screening-level LSTs for the project site in SRA 9 are shown in Table 6, *South Coast AQMD Screening-Level Localized Significance Thresholds,* for sensitive receptors within 82 feet (25 meters) for NO_x and CO and 550 feet (168 meters) for PM_{10} and $PM_{2.5}$. These distances represent residences at 550 feet, which are assumed to be exposed to project-related emissions 24 hours a day, and the offsite worker at 82 feet, who would not be exposed to project-related emissions for most of the day.

Table 6 South Coast AQMD Screening-Level Localized Significance Thresholds

	Threshold (lbs/day)			
Acreage Disturbed	Nitrogen Oxides (NO_X)[1]	Carbon Monoxide (CO)[1]	Coarse Particulates (PM_{10})[2]	Fine Particulates ($PM_{2.5}$)[2]
Construction				
1 Acre or Less Disturbed Per Day	89	623	62	18
5 Acres Disturbed Per Day	203	1,733	91	29
Operation				
5-Acre Site	203	1,733	23	8

Sources:
South Coast Air Quality Management District (South Coast AQMD). 2008, July. Final Localized Significance Threshold Methodology. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf;
South Coast Air Quality Management District (South Coast AQMD). 2011. Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf.
[1] LSTs are based on receptors within 82 feet (25 meters) in SRA 9.
[2] LSTs are based on receptors within 550 feet (168 meters) in SRA 9.

Health Risk

Whenever a project would require use of chemical compounds that have been identified in South Coast AQMD Rule 1401, placed on CARB's air toxics list pursuant to AB 1807, or placed on the EPA's National Emissions Standards for Hazardous Air Pollutants, a health risk assessment is required by the South Coast AQMD. Table 7, *Toxic Air Contaminants Incremental Risk Thresholds*, lists the TAC incremental risk thresholds for operation of a project. The purpose of this environmental evaluation is to identify the significant effects of the proposed project on the environment, not the significant effects of the environment on the proposed project. (*California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal.4th 369 (Case No. S213478)*). CEQA does not require CEQA-level environmental document to analyze the environmental effects of attracting development and people to an area. However, the environmental document must analyze the impacts of environmental hazards on future users, when a proposed project exacerbates an existing environmental hazard or condition. Residential, commercial, and office uses do not use substantial quantities of TACs and typically do not exacerbate existing hazards, so these thresholds are typically applied to new industrial projects.

Table 7 South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds

Maximum Incremental Cancer Risk	≥ 10 in 1 million
Hazard Index (project increment)	≥ 1.0
Cancer Burden in areas ≥ 1 in 1 million	> 0.5 excess cancer cases

Source: South Coast AQMD 2019. South Coast AQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

GREENHOUSE GAS EMISSIONS

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHG, to the atmosphere. Climate change is the variation of Earth's climate over time, whether due to natural variability or as a result of human activities. The primary source of these GHG is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHG—water vapor,[51] carbon (CO_2), methane (CH_4), and ozone (O_3)—that are the likely cause of an increase in global average temperatures observed within the 20th and 21st centuries. Other GHG identified by the IPCC that contribute to global warming to a lesser extent include nitrous oxide (N_2O), sulfur hexafluoride (SF_6),

[51] Water vapor (H_2O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant, but part of the feedback loop rather than a primary cause of change.

hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons.[52, 53] The major GHG are briefly described below.

- **Carbon dioxide (CO_2)** enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and respiration, and also as a result of other chemical reactions (e.g. manufacture of cement). Carbon dioxide is removed from the atmosphere (sequestered) when it is absorbed by plants as part of the biological carbon cycle.

- **Methane (CH_4)** is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and from the decay of organic waste in municipal landfills and water treatment facilities.

- **Nitrous oxide (N_2O)** is emitted during agricultural and industrial activities as well as during combustion of fossil fuels and solid waste.

- **Fluorinated gases** are synthetic, strong GHGs that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for ozone-depleting substances. These gases are typically emitted in smaller quantities, but because they are potent GHGs, they are sometimes referred to as high global-warming-potential (GWP) gases.

    - ***Chlorofluorocarbons (CFCs***) are GHGs covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Since they are not destroyed in the lower atmosphere (troposphere, stratosphere), CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are also ozone-depleting gases and are therefore being replaced by other compounds that are GHGs covered under the Kyoto Protocol.

    - ***Perfluorocarbons (PFCs)*** are a group of human-made chemicals composed of carbon and fluorine only. These chemicals (predominantly perfluoromethane [CF_4] and perfluoroethane [C_2F_6]) were introduced as alternatives, along with HFCs, to the ozone-depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they have a high global warming potential.

[52] Black carbon contributes to climate change both directly, by absorbing sunlight, and indirectly, by depositing on snow (making it melt faster) and by interacting with clouds and affecting cloud formation. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Reducing black carbon emissions globally can have immediate economic, climate, and public health benefits. California has been an international leader in reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (California Air Resources Board (CARB). 2017, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://www.arb.ca.gov/cc/shortlived/shortlived.htm). However, state and national GHG inventories do not yet include black carbon due to ongoing work resolving the precise global warming potential of black carbon. Guidance for CEQA documents does not yet include black carbon.

[53] Intergovernmental Panel on Climate Change (IPCC). 2001. Third Assessment Report: Climate Change 2001. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/03/WGI_TAR_full_report.pdf.

- ***Sulfur Hexafluoride (SF_6)*** is a colorless gas soluble in alcohol and ether, slightly soluble in water. SF_6 is a strong GHG used primarily in electrical transmission and distribution systems as an insulator.

- ***Hydrochlorofluorocarbons (HCFCs)*** contain hydrogen, fluorine, chlorine, and carbon atoms. Although ozone-depleting substances, they are less potent at destroying stratospheric ozone than CFCs. They have been introduced as temporary replacements for CFCs and are also GHGs.

- ***Hydrofluorocarbons (HFCs)*** contain only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone-depleting substances to serve many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are strong GHGs.[54,55]

GHGs are dependent on the lifetime or persistence of the gas molecule in the atmosphere. Some GHGs have stronger greenhouse effects than others. These are referred to as high GWP gases. The GWP of GHG emissions are shown in Table 8. The GWP is used to convert GHGs to CO_2-equivalence (CO_2e) to show the relative potential that different GHGs have to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. For example, under IPCC's Fourth Assessment Report (AR4) GWP values for CH_4, a project that generates 10 metric tons (MT) of CH_4 would be equivalent to 250 MT of CO_2.[56]

[54] Intergovernmental Panel on Climate Change (IPCC). 2001. Third Assessment Report: Climate Change 2001. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/03/WGI_TAR_full_report.pdf.
[55] US Environmental Protection Agency (USEPA). 2019. Overview of Greenhouse Gases. http://www3.epa.gov/climatechange/ghgemissions/gases.html.
[56] Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/ar4_syr_full_report.pdf

Table 8 GHG Emissions and Their Relative Global Warming Potential Compared to CO_2

GHGs	Second Assessment Report Atmospheric Lifetime (Years)	Fourth Assessment Report Atmospheric Lifetime (Years)	Second Assessment Report Global Warming Potential Relative to CO_2[1]	Fourth Assessment Report Global Warming Potential Relative to CO_2[1]
Carbon Dioxide (CO_2)	50 to 200	50 to 200	1	1
Methane[2] (CH_4)	12 (±3)	12	21	25
Nitrous Oxide (N_2O)	120	114	310	298
Hydrofluorocarbons:				
HFC-23	264	270	11,700	14,800
HFC-32	5.6	4.9	650	675
HFC-125	32.6	29	2,800	3,500
HFC-134a	14.6	14	1,300	1,430
HFC-143a	48.3	52	3,800	4,470
HFC-152a	1.5	1.4	140	124
HFC-227ea	36.5	34.2	2,900	3,220
HFC-236fa	209	240	6,300	9,810
HFC-4310mee	17.1	15.9	1,300	1,030
Perfluoromethane: CF_4	50,000	50,000	6,500	7,390
Perfluoroethane: C_2F_6	10,000	10,000	9,200	12,200
Perfluorobutane: C_4F_{10}	2,600	NA	7,000	8,860
Perfluoro-2-methylpentane: C_6F_{14}	3,200	NA	7,400	9,300
Sulfur Hexafluoride (SF_6)	3,200	NA	23,900	22,800

Source: Intergovernmental Panel on Climate Change (IPCC). 1995. Second Assessment Report: Climate Change 1995 https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_sar_wg_I_full_report.pdf.
Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/ar4_syr_full_report.pdf.

Notes: The GWP values in the IPCC's Fifth Assessment Report (2013)[57] reflect new information on atmospheric lifetimes of GHGs and an improved calculation of the radiative forcing of CO_2. However, South Coast AQMD uses the AR4 GWP values to maintain consistency in statewide GHG emissions modeling. In addition, the 2017 Scoping Plan Update was based on the AR4 GWP values.

1 Based on 100-year time horizon of the GWP of the air pollutant relative to CO_2.

2 The methane GWP includes direct effects and indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO_2 is not included.

California's Greenhouse Gas Sources and Relative Contribution

In 2020, the statewide GHG emissions inventory was updated for 2000 to 2018 emissions using the GWPs in IPCC's AR4.[58] Based on these GWPs, California produced 425.3 $MMTCO_2e$ GHG emissions in 2018. California's transportation sector was the single largest generator of GHG emissions, producing 39.9 percent of the state's total emissions. Industrial sector emissions made up 21.0 percent, and electric power generation made up 14.8 percent of the state's emissions inventory. Other major sectors of GHG emissions include

[57] Intergovernmental Panel on Climate Change (IPCC). 2013. Fifth Assessment Report: Climate Change 2013. New York: Cambridge University Press. https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_all_final.pdf.

[58] Methodology for determining the statewide GHG inventory is not the same as the methodology used to determine statewide GHG emissions under Assembly Bill 32 (2006).

commercial and residential (9.7 percent), agriculture and forestry (7.7 percent) high GWP (4.8 percent), and recycling and waste (2.1 percent).[59]

Since the peak level in 2004, California statewide GHG emissions dropped below the 2020 GHG limit of 431 $MMCO_2e$ in 2016 and have remained below the 2020 GHG limit since then. In 2018, emissions from routine GHG emitting activities statewide were 6 $MMTCO_2e$ lower than the 2020 GHG limit. Per capita GHG emissions in California have dropped from a 2001 peak of 14.0 $MTCO_2e$ per person to 10.7 $MTCO_2e$ per person in 2018, a 24 percent decrease. Transportation emissions decreased in 2018 compared to the previous year, which is the first year over year decrease since 2013. Since 2008, California's electricity sector has followed an overall downward trend in emissions. In 2018, solar power generation has continued its rapid growth since 2013. Emissions from high-GWP gases increased 2.3 percent in 2018 (2000-2018 average year-over-year increase is 6.8 percent), continuing the increasing trend as they replace Ozone Depleting Substances (ODS) being phased out under the 1987 Montreal Protocol. Overall trends in the inventory also demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product (GDP)) is declining, representing a 43 percent decline since the 2001 peak, while the state's GDP has grown 59 percent during this period.[60]

Regulatory Settings

REGULATION OF GHG EMISSIONS ON A NATIONAL LEVEL

The EPA announced on December 7, 2009, that GHG emissions threaten the public health and welfare of the American people and that GHG emissions from on-road vehicles contribute to that threat. The EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHG emissions fit within the Clean Air Act definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements but allow the EPA to finalize the GHG standards proposed in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation. [61]

To regulate GHGs from passenger vehicles, EPA was required to issue an endangerment finding. The finding identifies emissions of six key GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—that have been the subject of scrutiny and intense analysis for decades by scientists in the United States and around the world. The first three are applicable to the project's GHG emissions inventory because they constitute the majority of GHG emissions and, per South Coast AQMD guidance, are the GHG emissions that should be evaluated as part of a project's GHG emissions inventory.

[59] California Air Resources Board (CARB). 2020. 2020 California Greenhouse Gas 2000-2018 Emissions Trends and Indicators Report. https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2018/ghg_inventory_trends_00-18.pdf.
[60] California Air Resources Board (CARB). 2020. 2020 California Greenhouse Gas 2000-2018 Emissions Trends and Indicators Report. https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2018/ghg_inventory_trends_00-18.pdf.
[61] US Environmental Protection Agency (USEPA). 2009, December. EPA: Greenhouse Gases Threaten Public Health and the Environment. Science overwhelmingly shows greenhouse gas concentrations at unprecedented levels due to human activity. https://archive.epa.gov/epapages/newsroom_archive/newsreleases/08d11a451131bca585257685005bf252.html.

US Mandatory Report Rule for GHGs (2009)

In response to the endangerment finding, the EPA issued the Mandatory Reporting of GHG Rule that requires substantial emitters of GHG emissions (large stationary sources, etc.) to report GHG emissions data. Facilities that emit 25,000 MT or more of CO_2 per year are required to submit an annual report.

Update to Corporate Average Fuel Economy Standards (2021 to 2026)

The federal government issued new Corporate Average Fuel Economy (CAFE) standards in 2012 for model years 2017 to 2025, which required a fleet average of 54.5 miles per gallon (mpg) and 163 grams per mile (g/mi) of CO_2 emissions for model year 2025. However, on March 30, 2020, the EPA finalized an updated CAFE and GHG emissions standards for passenger cars and light trucks and established new standards, covering model years 2021 through 2026, known as the Safer Affordable Fuel Efficient (SAFE) Vehicles Final Rule for Model Years 2021-2026. Under SAFE, the fuel economy standards will increase 1.5 percent per year compared to the 5 percent per year under the CAFE standards established in 2012. Overall, SAFE requires a fleet average of 40.4 mpg and 202 g/mi of CO_2 emissions for model year 2026 vehicles.[62] However, a consortium of automakers and California have agreed on a voluntary framework to reduce emissions that can serve as an alternative path forward for clean vehicle standards nationwide. Automakers who agreed to the framework are Ford, Honda, BMW of North America and Volkswagen Group of America. The framework supports continued annual reductions of vehicle greenhouse gas emissions through the 2026 model year, encourages innovation to accelerate the transition to electric vehicles, and provides industry the certainty needed to make investments and create jobs. This commitment means that the auto companies party to the voluntary agreement will only sell cars in the United States that meet the CAFE standards established in 2012 for model years 2017 to 2025.[63] In addition, per Executive Order 13990 (EO 13990) issued by President Biden on January 20, 2021, the EPA is reconsidering SAFE for the purpose of rescinding the rule. The reconsideration process is ongoing with a planned public hearing occurring on June 2, 2021, which also started the public comment period that ended July 6, 2021. On August 5, 2021, the National Highway Traffic Safety Administration announced new proposed fuel standards in response to EO 13990. Fuel efficiency under the standards proposed would increase 8 percent annually for model years 2024 to 2026 and increase estimate fleetwide average by 12 mpg for model year 2026 relative to model year 2021.[64]

EPA Regulation of Stationary Sources under the Clean Air Act (Ongoing)

Pursuant to its authority under the Clean Air Act, the EPA has been developing regulations for new, large, stationary sources of emissions, such as power plants and refineries. Under former President Obama's 2013 Climate Action Plan, the EPA was directed to develop regulations for existing stationary sources as well. On June 19, 2019, the EPA issued the final Affordable Clean Energy (ACE) rule which became effective on August 19, 2019. The ACE rule was crafted under the direction of President Trump's Energy Independence Executive

[62] The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks: Final Rule, Vol. 85 Federal Register, No. 84 (April 30, 2020).

[63] California Air Resources Board. 2021, May 6 (accessed). California and major automakers reach groundbreaking framework agreement on clean emission standards. https://ww2.arb.ca.gov/news/california-and-major-automakers-reach-groundbreaking-framework-agreement-clean-emission.

[64] National Highway Traffic Safety Administration. 2021, August 5. USDOT Proposes Improved Fuel Economy Standards for MY 2024-2026 Passenger Cars and Light Trucks. https://www.nhtsa.gov/press-releases/fuel-economy-standards-2024-2026-proposal

Order. It officially rescinds the Clean Power Plan rule issued during the Obama Administration and sets emissions guidelines for states in developing plans to limit CO_2 emissions from coal-fired power plants.

REGULATION OF GHG EMISSIONS ON A STATE LEVEL

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in Executive Order S-3-05, Executive Order B-30-15, Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32) and Senate Bill 375 (SB 375).

Executive Order S-3-05

Executive Order S-3-05, signed June 1, 2005. Executive Order S-3-05 set the following GHG reduction targets for the State:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

Assembly Bill 32, the Global Warming Solutions Act (2006)

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in AB 32. AB 32 was passed by the California state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the 2020 tier of emissions reduction targets established in Executive Order S-03-05.

CARB 2008 Scoping Plan

The final Scoping Plan was adopted by CARB on December 11, 2008. The *2008 Scoping Plan* identified that GHG emissions in California are anticipated to be approximately 596 $MMTCO_2e$ in 2020. In December 2007, CARB approved a 2020 emissions limit of 427 $MMTCO_2e$ (471 million tons) for the state.[65] In order to effectively implement the emissions cap, AB 32 directed CARB to establish a mandatory reporting system to track and monitor GHG emissions levels for large stationary sources that generate more than 25,000 $MTCO_2e$ per year, prepare a plan demonstrating how the 2020 deadline can be met, and develop appropriate regulations and programs to implement the plan by 2012.

First Update to the Scoping Plan

CARB completed a five-year update to the 2008 Scoping Plan, as required by AB 32. The First Update to the Scoping Plan was adopted at the May 22, 2014, board hearing. The update highlights California's progress toward meeting the near-term 2020 GHG emission reduction goals defined in the original 2008 Scoping Plan. As part of the update, CARB recalculated the 1990 GHG emission levels with the updated AR4 GWPs, and

[65] California Air Resources Board (CARB). 2008, October. Climate Change Proposed Scoping Plan, a Framework for Change. https://ww3.arb.ca.gov/cc/scopingplan/document/psp.pdf.

the 427 $MMTCO_2e$ 1990 emissions level and 2020 GHG emissions limit, established in response to AB 32, is slightly higher at 431 $MMTCO_2e$. [66]

As identified in the Update to the Scoping Plan, California is on track to meeting the goals of AB 32. However, the update also addresses the state's longer-term GHG goals within a post-2020 element. The post-2020 element provides a high-level view of a long-term strategy for meeting the 2050 GHG goals, including a recommendation for the state to adopt a midterm target. According to the Update to the Scoping Plan, local government reduction targets should chart a reduction trajectory that is consistent with or exceeds the trajectory created by statewide goals. [67] CARB identified that reducing emissions to 80 percent below 1990 levels will require a fundamental shift to efficient, clean energy in every sector of the economy. Progressing toward California's 2050 climate targets will require significant acceleration of GHG reduction rates. Emissions from 2020 to 2050 will have to decline several times faster than the rate needed to reach the 2020 emissions limit. [68]

Executive Order B-30-15

Executive Order B-30-15, signed April 29, 2015, sets a goal of reducing GHG emissions in the state to 40 percent of 1990 levels by year 2030. Executive Order B-30-15 also directs CARB to update the Scoping Plan to quantify the 2030 GHG reduction goal for the state and requires state agencies to implement measures to meet the interim 2030 goal as well as the long-term goal for 2050 in Executive Order S-03-05. It also requires the Natural Resources Agency to conduct triennial updates of the California adaption strategy, Safeguarding California, in order to ensure climate change is accounted for in state planning and investment decisions.

Senate Bill 32 and Assembly Bill 197

In September 2016, Governor Brown signed SB 32 and AB 197 into law, making the Executive Order goal for year 2030 into a statewide mandated legislative target. AB 197 established a joint legislative committee on climate change policies and requires the CARB to prioritize direction emissions reductions rather than the market-based cap-and-trade program for large stationary, mobile, and other sources.

2017 Climate Change Scoping Plan Update

Executive Order B-30-15 and SB 32 required CARB to prepare another update to the Scoping Plan to address the 2030 target for the state. On December 24, 2017, CARB adopted the 2017 Climate Change Scoping Plan Update, which outlines potential regulations and programs, including strategies consistent with AB 197

[66] California Air Resources Board (CARB). 2014, May 15. First Update to the Climate Change Scoping Plan: Building on the Framework, Pursuant to AB 32, The California Global Warming Solutions Act of 2006. http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm.

[67] California Air Resources Board (CARB). 2014, May 15. First Update to the Climate Change Scoping Plan: Building on the Framework, Pursuant to AB 32, The California Global Warming Solutions Act of 2006. http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm.

[68] California Air Resources Board (CARB). 2014, May 15. First Update to the Climate Change Scoping Plan: Building on the Framework, Pursuant to AB 32, The California Global Warming Solutions Act of 2006. http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm.

requirements, to achieve the 2030 target. The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent decrease in 1990 levels by 2030.[69]

California's climate strategy will require contributions from all sectors of the economy, including enhanced focus on zero- and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, such as solar roofs, wind, and other types of distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (methane, black carbon, and fluorinated gases); and an increased focus on integrated land use planning, to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for GHG reductions at stationary sources complement local air pollution control efforts by the local air districts to tighten criteria air pollutants and TACs emissions limits on a broad spectrum of industrial sources. Major elements of the 2017 Scoping Plan framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks;
- Low Carbon Fuel Standard (LCFS), with an increased stringency (18 percent by 2030).
- Implementation of SB 350, which expands the Renewables Portfolio Standard (RPS) to 50 percent RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.
- Implementing the Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing methane and hydrofluorocarbon emissions by 40 percent and anthropogenic black carbon emissions by 50 percent by year 2030.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- Continued implementation of SB 375.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

In addition to the statewide strategies listed above, the 2017 Climate Change Scoping Plan also identified local governments as essential partners in achieving the State's long-term GHG reduction goals and identified local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends statewide targets of no more than 6 $MTCO_2e$ or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. CARB recommends that local governments evaluate and adopt robust and quantitative locally-appropriate goals that align with the statewide per capita targets and the State's sustainable development objectives and develop plans

[69] California Air Resources Board (CARB). 2017, November. California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target. https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf.

to achieve the local goals. The statewide per capita goals were developed by applying the percent reductions necessary to reach the 2030 and 2050 climate goals (i.e., 40 percent and 80 percent, respectively) to the State's 1990 emissions limit established under AB 32. For CEQA projects, CARB states that lead agencies have discretion to develop evidenced-based numeric thresholds (mass emissions, per capita, or per service population)—consistent with the Scoping Plan and the state's long-term GHG goals. To the degree a project relies on GHG mitigation measures, CARB recommends that lead agencies prioritize on-site design features that reduce emissions, especially from VMT, and direct investments in GHG reductions within the project's region that contribute potential air quality, health, and economic co-benefits. Where further project design or regional investments are infeasible or not proven to be effective, CARB recommends mitigating potential GHG impacts through purchasing and retiring carbon credits.

The Scoping Plan scenario is set against what is called the business-as-usual (BAU) yardstick—that is, what would the GHG emissions look like if the State did nothing at all beyond the existing policies that are required and already in place to achieve the 2020 limit, as shown in Table 9. It includes the existing renewables requirements, advanced clean cars, the "10 percent" Low Carbon Fuel Standard (LCFS), and the SB 375 program for more vibrant communities, among others. However, it does not include a range of new policies or measures that have been developed or put into statute over the past two years. Also shown in the table, the known commitments are expected to result in emissions that are 60 $MMTCO_2e$ above the target in 2030. If the estimated GHG reductions from the known commitments are not realized due to delays in implementation or technology deployment, the post-2020 Cap-and-Trade Program would deliver the additional GHG reductions in the sectors it covers to ensure the 2030 target is achieved.

Table 9 2017 Climate Change Scoping Plan Emissions Reductions Gap

Modeling Scenario	2030 GHG Emissions $MMTCO_2e$
Reference Scenario (Business-as-Usual)	389
With Known Commitments	320
2030 GHG Target	**260**
Gap to 2030 Target	**60**

Source: California Air Resources Board. 2017, November. California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target. https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf.

Table 10 provides estimated GHG emissions by sector, compared to 1990 levels, and the range of GHG emissions for each sector estimated for 2030.

Table 10 2017 Climate Change Scoping Plan Emissions Change by Sector

Scoping Plan Sector	1990 $MMTCO_2e$	2030 Proposed Plan Ranges $MMTCO_2e$	% Change from 1990
Agricultural	26	24-25	-8% to -4%
Residential and Commercial	44	38-40	-14% to -9%
Electric Power	108	30-53	-72% to -51%
High GWP	3	8-11	267% to 367%
Industrial	98	83-90	-15% to -8%

Table 10 2017 Climate Change Scoping Plan Emissions Change by Sector

Scoping Plan Sector	1990 $MMTCO_2e$	2030 Proposed Plan Ranges $MMTCO_2e$	% Change from 1990
Recycling and Waste	7	8-9	14% to 29%
Transportation (including TCU)	152	103-111	-32% to -27%
Net Sink[1]	-7	TBD	TBD
Sub Total	431	294-339	-32% to -21%
Cap-and-Trade Program	NA	24-79	NA
Total	**431**	**260**	**-40%**

Source: California Air Resources Board (CARB). 2017, November. California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target. https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf.
Notes: TCU = Transportation, Communications, and Utilities; TBD: To Be Determined.
[1] Work is underway through 2017 to estimate the range of potential sequestration benefits from the natural and working lands sector.

Senate Bill 1383

On September 19, 2016, the Governor signed SB 1383 to supplement the GHG reduction strategies in the Scoping Plan to consider short-lived climate pollutants, including black carbon and CH_4. Black carbon is the light-absorbing component of fine particulate matter produced during incomplete combustion of fuels. SB 1383 requires the state board, no later than January 1, 2018, to approve and begin implementing that comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030, as specified. The bill also establishes targets for reducing organic waste in landfill. On March 14, 2017, CARB adopted the "Final Proposed Short-Lived Climate Pollutant Reduction Strategy," which identifies the state's approach to reducing anthropogenic and biogenic sources of short-lived climate pollutants. Anthropogenic sources of black carbon include on- and off-road transportation, residential wood burning, fuel combustion (charbroiling), and industrial processes. According to CARB, ambient levels of black carbon in California are 90 percent lower than in the early 1960s despite the tripling of diesel fuel use.[70] In-use on-road rules are expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020. The South Coast AQMD is one of the air districts that requires air pollution control technologies for chain-driven broilers, which reduces particulate emissions from these char broilers by over 80 percent.[71] Additionally, South Coast AQMD Rule 445 limits installation of new fireplaces in the SoCAB.

Senate Bill 375

In 2008, SB 375, the Sustainable Communities and Climate Protection Act, was adopted to connect the GHG emissions reductions targets established in the 2008 Scoping Plan for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles (excludes emissions associated with goods movement) by aligning regional long-range transportation plans, investments, and housing allocations to local land use planning to reduce VMT and vehicle trips. Specifically, SB 375 required CARB to establish GHG emissions reduction targets for each of the

[70] California Air Resources Board (CARB). 2017, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://www.arb.ca.gov/cc/shortlived/shortlived.htm.
[71] California Air Resources Board (CARB). 2017, March 14. Final Proposed Short-Lived Climate Pollutant Reduction Strategy. https://www.arb.ca.gov/cc/shortlived/shortlived.htm.

18 metropolitan planning organizations (MPOs). The Southern California Association of Governments (SCAG) is the MPO for the Southern California region, which includes the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial.

Pursuant to the recommendations of the Regional Transportation Advisory Committee, CARB adopted per capita reduction targets for each of the MPOs rather than a total magnitude reduction target. SCAG's targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 2035.[72] The 2020 targets are smaller than the 2035 targets because a significant portion of the built environment in 2020 has been defined by decisions that have already been made. In general, the 2020 scenarios reflect that more time is needed for large land use and transportation infrastructure changes. Most of the reductions in the interim are anticipated to come from improving the efficiency of the region's transportation network. The targets would result in 3 $MMTCO_2e$ of reductions by 2020 and 15 $MMTCO_2e$ of reductions by 2035. Based on these reductions, the passenger vehicle target in CARB's Scoping Plan (for AB 32) would be met.[73]

2017 Update to the SB 375 Targets

CARB is required to update the targets for the MPOs every eight years. In June 2017, CARB released updated targets and technical methodology and recently released another update in February 2018. The updated targets consider the need to further reduce VMT, as identified in the 2017 Scoping Plan Update, while balancing the need for additional and more flexible revenue sources to incentivize positive planning and action toward sustainable communities. Like the 2010 targets, the updated SB 375 targets are in units of percent per capita reduction in GHG emissions from automobiles and light trucks relative to 2005. This excludes reductions anticipated from implementation of state technology and fuels strategies and any potential future state strategies such as statewide road user pricing. The proposed targets call for greater per capita GHG emission reductions from SB 375 than are currently in place, which for 2035, translate into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted SCSs. As proposed, CARB staff's proposed targets would result in an additional reduction of over 8 $MMTCO_2e$ in 2035 compared to the current targets. For the next round of SCS updates, CARB's updated targets for the SCAG region are an 8 percent per capita GHG reduction in 2020 from 2005 levels (unchanged from the 2010 target) and a 19 percent per capita GHG reduction in 2035 from 2005 levels (compared to the 2010 target of 13 percent).[74] CARB adopted the updated targets and methodology on March 22, 2018. All SCSs adopted after October 1, 2018 are subject to these new targets.

[72] California Air Resources Board (CARB). 2010, September. Staff Report Proposed Regional Greenhouse Gas Emission Reduction Targets for Automobiles and Light Trucks Pursuant to Senate Bill 375. https://ww3.arb.ca.gov/cc/sb375/staffreport_sb375080910.pdf.

[73] California Air Resources Board (CARB). 2010, September. Regional Greenhouse Gas Emission Reduction Targets for Automobiles and Light Trucks Pursuant to Senate Bill 375. https://ww3.arb.ca.gov/board/res/2010/res10-31.pdf.

[74] California Air Resources Board (CARB). 2018, February. Proposed Update to the SB 375 Greenhouse Gas Emission Reduction Targets. https://www.arb.ca.gov/cc/inventory/data/data.htm.

SCAG's Regional Transportation Plan / Sustainable Communities Strategy

SB 375 requires each MPO to prepare a sustainable communities strategy in its regional transportation plan. For the SCAG region, the 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) (Connect SoCal) was adopted on September 3, 2020, and is an update to the 2016-2040 RTP/SCS.[75] In general, the RTP/SCS outlines a development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, would reduce vehicle miles traveled from automobiles and light duty trucks and thereby reduce GHG emissions from these sources.

Connect SoCal focuses on the continued efforts of the previous RTP/SCSs to integrate transportation and land uses strategies in development of the SCAG region through horizon year 2045.[76] Connect SoCal forecasts that the SCAG region will meet its GHG per capita reduction targets of 8 percent by 2020 and 19 percent by 2035. Additionally, Connect SoCal also forecasts that implementation of the plan will reduce VMT per capita in year 2045 by 4.1 percent compared to baseline conditions for that year. Connect SoCal includes a "Core Vision" that centers on maintaining and better managing the transportation network for moving people and goods while expanding mobility choices by locating housing, jobs, and transit closer together, and increasing investments in transit and complete streets.[77]

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and was anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model year 2017 through 2025 light-duty vehicles (see also the discussion on the update to the Corporate Average Fuel Economy standards under Federal Laws, above). In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025, new automobiles will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions. However, as discussed above, under SAFE Rule, the fuel economy standards will increase 1.5 percent per year compared to the 5 percent per year under the CAFE standards established in 2012. Overall, SAFE requires a fleet average of 40.4 mpg and 202 g/mi of CO_2 emissions for model year 2026 vehicles.[78] Additionally, the EPA also published the final rule for the One National Program Rule, which clarifies that

[75] Southern California Association of Governments (SCAG). 2020, September 3. Connect SoCal Plan: The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy of The Southern California Association of Governments. https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx

[76] Southern California Association of Governments (SCAG). 2020, September 3. Connect SoCal Plan: The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy of The Southern California Association of Governments. https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx

[77] Southern California Association of Governments (SCAG). 2020, September 3. Connect SoCal Plan: The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy of The Southern California Association of Governments. https://www.connectsocal.org/Pages/Connect-SoCal-Final-Plan.aspx

[78] The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks: Final Rule, Vol. 85 Federal Register, No. 84 (April 30, 2020).

federal law preempts state and local tailpipe GHG emissions standards as well as ZE vehicle mandates. Additionally, this rule revokes the waiver granted to California in 2013 for the ACC program as it relates to GHG and ZE vehicle standards.[79] In November 2019, California, joined by 22 other states, the District of Columbia, and the Cities of Los Angeles and New York filed a lawsuit with the U.S. Court of Appeals for the District of Columbia Circuit challenging the One National Program Rule. To date, a ruling has not been made on the lawsuit. Additionally, as stated, the USEPA is reconsidering SAFE for the purpose of rescinding the rule under the direction of Executive Order 13990 issued by President Biden.

Executive Order S-01-07

On January 18, 2007, the state set a new LCFS for transportation fuels sold in the state. Executive Order S-01-07 sets a declining standard for GHG emissions measured in carbon dioxide equivalent gram per unit of fuel energy sold in California. The LCFS requires a reduction of 2.5 percent in the carbon intensity of California's transportation fuels by 2015 and a reduction of at least 10 percent by 2020. The standard applies to refiners, blenders, producers, and importers of transportation fuels, and would use market-based mechanisms to allow these providers to choose how they reduce emissions during the "fuel cycle" using the most economically feasible methods.

Senate Bills 1078, 107, X1-2, and Executive Order S-14-08

A major component of California's Renewable Energy Program is the RPS established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. Executive Order S-14-08 was signed in November 2008, which expanded the state's Renewable Energy Standard to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The increase in renewable sources for electricity production will decrease indirect GHG emissions from development projects, because electricity production from renewable sources is generally considered carbon neutral.

Senate Bill 350

Senate Bill 350 (de Leon), was signed into law in September 2015. SB 350 establishes tiered increases to the RPS of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also set a new goal to double the energy efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100, which raises California's RPS requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December

[79] The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program. Vol. 84 Federal Register, No. 188 (September 27, 2019).

31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18

Executive Order B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs CARB to work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Executive Order B-16-2012

On March 23, 2012, the state identified that CARB, the California Energy Commission (CEC), the Public Utilities Commission, and other relevant agencies worked with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to accommodate zero-emissions vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). The executive order also directs the number of zero-emission vehicles in California's state vehicle fleet to increase through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles are zero-emission by 2015 and at least 25 percent by 2020. The executive order also establishes a target for the transportation sector of reducing GHG emissions from the transportation sector 80 percent below 1990 levels.

Executive Order N-79-20

On September 23, 2020 Governor Newsom signed Executive Order N-79-20 which identifies a goal that 100 percent of in-state sales of new passenger cars and trucks will be zero-emission by 2035. Additionally, this Executive Order identified fleet goals for trucks of 100 percent of drayage trucks be zero emissions by 2035 and 100 percent of medium- and heavy-duty vehicles in the State be zero-emission by 2045, for all operations where feasible. Additionally, the Executive Order identifies a goal for the State to transition to 100 percent zero-emission off-road vehicles and equipment by 2035 where feasible.

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and non-residential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 and most recently revised in 2019 (Title 24, Part 6, of the California Code of Regulations [CCR]). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The 2019 Building Energy Efficiency Standards, which were adopted on May 9, 2018, went into effect on January 1, 2020.

The 2019 standards move towards cutting energy use in new homes by more than 50 percent and will require installation of solar photovoltaic systems for single-family homes and multi-family buildings of 3 stories and less. Four key areas the 2019 standards will focus on include 1) smart residential photovoltaic systems; 2)

updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa); 3) residential and nonresidential ventilation requirements; 4) and nonresidential lighting requirements.[80] Under the 2019 standards, nonresidential buildings will be 30 percent more energy efficient compared to the 2016 standards while single-family homes will be 7 percent more energy efficient.[81] When accounting for the electricity generated by the solar photovoltaic system, single-family homes would use 53 percent less energy compared to homes built to the 2016 standards.[82]

On August 11, 2021, the CEC adopted the 2022 Building Energy Efficiency Standards, which will be considered for approval by the California Building Standards Commission in December 2021. If approved, the 2022 standards would become effective and replace the existing 2019 standards on January 1, 2023. The 2022 standards would require mixed-fuel single-family homes to be electric-ready to accommodate replacement of gas appliances with electric appliances. In addition, the new standards also include prescriptive photovoltaic system and battery requirements for high rise multi-family buildings (i.e., more than three stories) and non-commercial buildings such as hotels, offices, medical offices, restaurants, retail stores, schools, warehouses, theaters, and convention centers.[83]

California Building Code: CALGreen

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.[84] The mandatory provisions of CALGreen became effective January 1, 2011. The CEC adopted the voluntary standards of the 2019 CALGreen on October 3, 2018. The 2019 CALGreen standards become effective January 1, 2020.

2006 Appliance Efficiency Regulations

The 2006 Appliance Efficiency Regulations (20 CCR §§ 1601–1608) were adopted by the CEC on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances. Though these regulations are now often viewed as "business as usual," they exceed the standards imposed by all other states, and they reduce GHG emissions by reducing energy demand.

[80] California Energy Commission (CEC). 2018. News Release: Energy Commission Adopts Standards Requiring Solar Systems for New Homes, First in Nation. https://www.energy.ca.gov/news/2018-05/energy-commission-adopts-standards-requiring-solar-systems-new-homes-first.

[81] California Energy Commission (CEC). 2018. 2019 Building Energy and Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf.

[82] California Energy Commission (CEC). 2018. 2019 Building Energy and Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf.

[83] California Energy Commission. 2021, May 19. Amendments to the Building Energy Efficiency Standards (2022 Energy Code) Draft Environmental Report. CEC-400-2021-077-D.

[84] The green building standards became mandatory in the 2010 edition of the code.

Solid Waste Regulations

California's Integrated Waste Management Act of 1989 (AB 939; Public Resources Code §§ 40050 et seq.) set a requirement for cities and counties throughout the state to divert 50 percent of all solid waste from landfills by January 1, 2000, through source reduction, recycling, and composting. In 2008, the requirements were modified to reflect a per capita requirement rather than tonnage. To help achieve this, the act requires that each city and county prepare and submit a source reduction and recycling element. AB 939 also established the goal for all California counties to provide at least 15 years of ongoing landfill capacity.

AB 341 (Chapter 476, Statutes of 2011) increased the statewide goal for waste diversion to 75 percent by 2020 and requires recycling of waste from commercial and multifamily residential land uses. Section 5.408 of the CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

The California Solid Waste Reuse and Recycling Access Act (AB 1327; Public Resources Code §§ 42900 et seq.) requires areas to be set aside for collecting and loading recyclable materials in development projects. The act required the California Integrated Waste Management Board to develop a model ordinance for adoption by any local agency requiring adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model or an ordinance of their own.

Section 5.408 of the 2019 CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

In October of 2014, Governor Brown signed AB 1826, requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste.

Water Efficiency Regulations

The 20x2020 Water Conservation Plan was issued by the Department of Water Resources (DWR) in 2010 pursuant to Senate Bill 7, which was adopted during the 7th Extraordinary Session of 2009–2010 and therefore dubbed "SBX7-7." SBX7-7 mandated urban water conservation and authorized the DWR to prepare a plan implementing urban water conservation requirements (20x2020 Water Conservation Plan). In addition, it required agricultural water providers to prepare agricultural water management plans, measure water deliveries to customers, and implement other efficiency measures. SBX7-7 requires urban water providers to adopt a water conservation target of 20 percent reduction in urban per capita water use by 2020 compared to 2005 baseline use.

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or equivalent. AB 1881 also requires the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including

irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

Thresholds of Significance

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;

2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;

3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[85]

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, South Coast AQMD has convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting (Meeting No. 15) held in September 2010, South Coast AQMD is proposing to adopt a tiered approach for evaluating GHG emissions for development projects where South Coast AQMD is not the lead agency[86]:

- **Tier 1.** If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

- **Tier 2.** If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

- **Tier 3.** If GHG emissions are less than the screening-level threshold, project-level and cumulative GHG emissions are less than significant.

  For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, South Coast AQMD requires an assessment of GHG emissions. South Coast AQMD is proposing a screening-

[85] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

[86] South Coast Air Quality Management District (South Coast AQMD). 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf.

level threshold of 3,000 $MTCO_2e$ annually for all land use types or the following land-use-specific thresholds: 1,400 $MTCO_2e$ for commercial projects, 3,500 $MTCO_2e$ for residential projects, or 3,000 $MTCO_2e$ for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal, and therefore, less than cumulatively considerable impact on GHG emissions. [87]

- **Tier 4.** If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

  The South Coast AQMD Working Group has identified an efficiency target for projects that exceed the screening threshold of 4.8 $MTCO_2e$ per year per service population ($MTCO_2e$/year/SP) for project-level analyses and 6.6 $MTCO_2e$/year/SP for plan level projects (e.g., program-level projects such as general plans) for the year 2020.[88] The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB's 2008 Scoping Plan.[89]

For purposes of this analysis, because the proposed project has an anticipated opening year post-2020, the bright-line screening-level criterion of 3,000 $MTCO_2e$/yr is used as the significance threshold for this project. Therefore, if the project operation-phase emissions exceed the 3,000 $MTCO_2e$/yr threshold, GHG emissions would be considered potentially significant in the absence of mitigation measures.

[87] South Coast Air Quality Management District (South Coast AQMD). 2008. Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf.

[88] It should be noted that the Working Group also considered efficiency targets for 2035 for the first time in this Working Group meeting.

[89] South Coast AQMD took the 2020 statewide GHG reduction target for land use only GHG emissions sectors and divided it by the 2020 statewide employment for the land use sectors to derive a per capita GHG efficiency metric that coincides with the GHG reduction targets of AB 32 for year 2020.

Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2020.4.0

Building Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0.0953	0.0144
	Off-Road	0.3456	3.2204	3.7849	0.0125	0.1119	0.103
	Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.2072**	**0.1174**
Offsite							
	Hauling	2.56E-03	0.078	0.0249	2.60E-04	6.77E-03	2.20E-03
	Vendor	3.94E-03	0.098	0.0336	3.90E-04	0.0129	4.38E-03
	Worker	0.0173	0.0126	0.1968	5.10E-04	0.0519	0.0141
	Total	**0.0238**	**0.1886**	**0.2552**	**1.16E-03**	**0.0716**	**0.0207**
TOTAL		***0.37***	***3.41***	***4.04***	***0.01***	***0.28***	***0.14***
Onsite	**2022 Winter**						
	Fugitive Dust					0.0953	0.0144
	Off-Road	0.3456	3.2204	3.7849	0.0125	0.1119	0.103
	Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.2072**	**0.1174**
Offsite							
	Hauling	2.44E-03	0.0813	0.0256	2.60E-04	6.77E-03	2.21E-03
	Vendor	3.89E-03	0.102	0.0348	3.90E-04	0.0129	4.38E-03
	Worker	0.0185	0.014	0.1807	4.80E-04	0.0519	0.0141
	Total	**0.0249**	**0.1973**	**0.2411**	**1.13E-03**	**0.0716**	**0.0207**
TOTAL		***0.37***	***3.42***	***4.03***	***0.01***	***0.28***	***0.13***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.10	0.01
	Off-Road	0.35	3.22	3.78	0.01	0.11	0.10
	Total	**0.35**	**3.22**	**3.78**	**0.01**	**0.21**	**0.12**
Offsite							
	Hauling	0.00	0.08	0.03	0.00	0.01	0.00
	Vendor	0.00	0.10	0.03	0.00	0.01	0.00
	Worker	0.02	0.01	0.20	0.00	0.05	0.01
	Total	**0.02**	**0.20**	**0.26**	**0.00**	**0.07**	**0.02**
TOTAL		***0.37***	***3.42***	***4.04***	***0.01***	***0.28***	***0.14***

Asphalt Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					1.2922	0.1957
	Off-Road	0.3456	3.2204	3.7849	0.0125	0.1119	0.103
	Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**1.4041**	**0.2986**
Offsite							
	Hauling	0.0868	3.2426	0.7027	0.0122	0.3502	0.1136
	Vendor	3.94E-03	0.098	0.0336	3.90E-04	0.0129	4.38E-03
	Worker	0.0173	0.0126	0.1968	5.10E-04	0.0519	0.0141
	Total	**0.108**	**3.3532**	**0.9331**	**0.0131**	**0.4149**	**0.1321**
TOTAL		***0.45***	***6.57***	***4.72***	***0.03***	***1.82***	***0.43***
Onsite	**2022 Winter**						
	Fugitive Dust					1.2922	0.1957
	Off-Road	0.3456	3.2204	3.7849	0.0125	0.1119	0.103
	Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**1.4041**	**0.2986**
Offsite							
	Hauling	0.0852	3.3727	0.7123	0.0123	0.3502	0.1136

	Vendor	3.89E-03	0.102	0.0348	3.90E-04	0.0129	4.38E-03
	Worker	0.0185	0.014	0.1807	4.80E-04	0.0519	0.0141
	Total	**0.1076**	**3.4887**	**0.9277**	**0.0131**	**0.415**	**0.1321**
TOTAL		***0.45***	***6.71***	***4.71***	***0.03***	***1.82***	***0.31***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	1.29	0.20
	Off-Road	0.35	3.22	3.78	0.01	0.11	0.10
	Total	**0.35**	**3.22**	**3.78**	**0.01**	**1.40**	**0.30**
Offsite							
	Hauling	0.09	3.37	0.71	0.01	0.35	0.11
	Vendor	0.00	0.10	0.03	0.00	0.01	0.00
	Worker	0.02	0.01	0.20	0.00	0.05	0.01
	Total	**0.11**	**3.49**	**0.93**	**0.01**	**0.42**	**0.13**
TOTAL		***0.45***	***6.71***	***4.72***	***0.03***	***1.82***	***0.43***

Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.3826	3.7621	3.2089	4.79E-03	0.2101	0.1933
	Total	**0.3826**	**3.7621**	**3.2089**	**4.79E-03**	**0.4367**	**0.2177**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.94E-03	0.098	0.0336	3.90E-04	0.0129	4.38E-03
	Worker	0.0104	7.58E-03	0.1181	3.10E-04	0.0311	8.45E-03
	Total	**0.0143**	**0.1056**	**0.1517**	**7.00E-04**	**0.044**	**0.0128**
TOTAL		***0.40***	***3.87***	***3.36***	***0.01***	***0.48***	***0.23***
Onsite	**2022 Winter**						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.3826	3.7621	3.2089	4.79E-03	0.2101	0.1933
	Total	**0.3826**	**3.7621**	**3.2089**	**4.79E-03**	**0.4367**	**0.2177**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.89E-03	0.102	0.0348	3.90E-04	0.0129	4.38E-03
	Worker	0.0111	8.37E-03	0.1084	2.90E-04	0.0311	8.45E-03
	Total	**0.015**	**0.1104**	**0.1432**	**6.80E-04**	**0.0441**	**0.0128**
TOTAL		***0.40***	***3.87***	***3.35***	***0.01***	***0.48***	***0.23***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.38	3.76	3.21	0.00	0.21	0.19
	Total	**0.38**	**3.76**	**3.21**	**0.00**	**0.44**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.10	0.03	0.00	0.01	0.00
	Worker	0.01	0.01	0.12	0.00	0.03	0.01
	Total	**0.02**	**0.11**	**0.15**	**0.00**	**0.04**	**0.01**
TOTAL		***0.40***	***3.87***	***3.36***	***0.01***	***0.48***	***0.23***

Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.6259	6.5142	9.7087	0.0149	0.279	0.2567
	Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**	**0.279**	**0.2567**
Offsite							

	Hauling	0	0	0	0	0	0
	Vendor	0.0767	1.9104	0.655	7.64E-03	0.252	0.0854
	Worker	0.346	0.2526	3.9358	0.0102	1.0375	0.2816
	Total	**0.4227**	**2.163**	**4.5908**	**0.0179**	**1.2895**	**0.367**
TOTAL		***1.05***	***8.68***	***14.30***	***0.03***	***1.57***	***0.62***
Onsite		**2022 Winter**					
	Off-Road	0.6259	6.5142	9.7087	0.0149	0.279	0.2567
	Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**	**0.279**	**0.2567**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0758	1.9891	0.6776	7.64E-03	0.2521	0.0855
	Worker	0.3704	0.2791	3.6137	9.68E-03	1.0375	0.2816
	Total	**0.4462**	**2.2682**	**4.2913**	**0.0173**	**1.2895**	**0.367**
TOTAL		***1.07***	***8.78***	***14.00***	***0.03***	***1.57***	***0.62***
Onsite		**2022**					
	Off-Road	0.63	6.51	9.71	0.01	0.28	0.26
	Total	**0.63**	**6.51**	**9.71**	**0.01**	**0.28**	**0.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.08	1.99	0.68	0.01	0.25	0.09
	Worker	0.37	0.28	3.94	0.01	1.04	0.28
	Total	**0.45**	**2.27**	**4.59**	**0.02**	**1.29**	**0.37**
TOTAL		***1.07***	***8.78***	***14.30***	***0.03***	***1.57***	***0.62***

Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**					
	Fugitive Dust					1.1662	0.1274
	Off-Road	4.295	47.4838	32.7612	0.0786	1.8373	1.6903
	Total	**4.295**	**47.4838**	**32.7612**	**0.0786**	**3.0036**	**1.8177**
Offsite							
	Hauling	0.754	27.8603	6.1783	0.1046	2.9793	0.9668
	Vendor	3.94E-03	0.098	0.0336	3.90E-04	0.0129	4.38E-03
	Worker	0.0519	0.0379	0.5904	1.53E-03	0.1556	0.0422
	Total	**0.8099**	**27.9962**	**6.8023**	**0.1065**	**3.1478**	**1.0134**
TOTAL		***5.10***	***75.48***	***39.56***	***0.19***	***6.15***	***2.83***
Onsite		**2022 Winter**					
	Fugitive Dust					1.1662	0.1274
	Off-Road	4.295	47.4838	32.7612	0.0786	1.8373	1.6903
	Total	**4.295**	**47.4838**	**32.7612**	**0.0786**	**3.0036**	**1.8177**
Offsite							
	Hauling	0.7388	28.9822	6.2707	0.1046	2.9796	0.9671
	Vendor	3.89E-03	0.102	0.0348	3.90E-04	0.0129	4.38E-03
	Worker	0.0556	0.0419	0.5421	1.45E-03	0.1556	0.0422
	Total	**0.7983**	**29.1261**	**6.8475**	**0.1064**	**3.1482**	**1.0137**
TOTAL		***5.09***	***76.61***	***39.61***	***0.19***	***6.15***	***1.86***
Onsite		**2022**					
	Fugitive Dust	0.00	0.00	0.00	0.00	1.17	0.13
	Off-Road	4.30	47.48	32.76	0.08	1.84	1.69
	Total	**4.30**	**47.48**	**32.76**	**0.08**	**3.00**	**1.82**
Offsite							
	Hauling	0.75	28.98	6.27	0.10	2.98	0.97
	Vendor	0.00	0.10	0.03	0.00	0.01	0.00

	Worker	0.06	0.04	0.59	0.00	0.16	0.04
	Total	**0.81**	**29.13**	**6.85**	**0.11**	**3.15**	**1.01**
TOTAL		***5.10***	***76.61***	***39.61***	***0.19***	***6.15***	***2.83***

Utility Trenching

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Off-Road	0.2368	2.4086	3.2169	4.47E-03	0.1295	0.1192
	Total	**0.2368**	**2.4086**	**3.2169**	**4.47E-03**	**0.1295**	**0.1192**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0173	0.0126	0.1968	5.10E-04	0.0519	0.0141
	Total	**0.0173**	**0.0126**	**0.1968**	**5.10E-04**	**0.0519**	**0.0141**
TOTAL		***0.25***	***2.42***	***3.41***	***0.00***	***0.18***	***0.13***
Onsite	**2022 Winter**						
	Off-Road	0.2368	2.4086	3.2169	4.47E-03	0.1295	0.1192
	Total	**0.2368**	**2.4086**	**3.2169**	**4.47E-03**	**0.1295**	**0.1192**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0185	0.014	0.1807	4.80E-04	0.0519	0.0141
	Total	**0.0185**	**0.014**	**0.1807**	**4.80E-04**	**0.0519**	**0.0141**
TOTAL		***0.26***	***2.42***	***3.40***	***0.00***	***0.18***	***0.13***
Onsite	**2022**						
	Off-Road	0.24	2.41	3.22	0.00	0.13	0.12
	Total	**0.24**	**2.41**	**3.22**	**0.00**	**0.13**	**0.12**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.20	0.00	0.05	0.01
	Total	**0.02**	**0.01**	**0.20**	**0.00**	**0.05**	**0.01**
TOTAL		***0.26***	***2.42***	***3.41***	***0.00***	***0.18***	***0.13***

Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
	Fugitive Dust					0	0
	Off-Road	0.3123	2.3606	2.8848	3.84E-03	0.1337	0.123
	Total	**0.3123**	**2.3606**	**2.8848**	**3.84E-03**	**0.1337**	**0.123**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.94E-03	0.098	0.0336	3.90E-04	0.0129	4.38E-03
	Worker	0.0173	0.0126	0.1968	5.10E-04	0.0519	0.0141
	Total	**0.0212**	**0.1106**	**0.2304**	**9.00E-04**	**0.0648**	**0.0185**
TOTAL		***0.33***	***2.47***	***3.12***	***0.00***	***0.20***	***0.14***
Onsite	**2022 Winter**						
	Fugitive Dust					0	0
	Off-Road	0.3123	2.3606	2.8848	3.84E-03	0.1337	0.123
	Total	**0.3123**	**2.3606**	**2.8848**	**3.84E-03**	**0.1337**	**0.123**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.89E-03	0.102	0.0348	3.90E-04	0.0129	4.38E-03
	Worker	0.0185	0.014	0.1807	4.80E-04	0.0519	0.0141

	Total	0.0224	0.116	0.2154	8.70E-04	0.0648	0.0185
TOTAL		***0.33***	***2.48***	***3.10***	***0.00***	***0.20***	***0.14***
Onsite	**2022**						
Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
Off-Road		0.31	2.36	2.88	0.00	0.13	0.12
Total		**0.31**	**2.36**	**2.88**	**0.00**	**0.13**	**0.12**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.10	0.03	0.00	0.01	0.00
Worker		0.02	0.01	0.20	0.00	0.05	0.01
Total		**0.02**	**0.12**	**0.23**	**0.00**	**0.06**	**0.02**
TOTAL		***0.33***	***2.48***	***3.12***	***0.00***	***0.20***	***0.14***

Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
Archit. Coating		58.7508				0	0
Off-Road		0.3316	3.3828	5.6686	8.89E-03	0.1184	0.1154
Total		**59.0825**	**3.3828**	**5.6686**	**8.89E-03**	**0.1184**	**0.1154**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.0692	0.0505	0.7872	2.04E-03	0.2075	0.0563
Total		**0.0692**	**0.0505**	**0.7872**	**2.04E-03**	**0.2075**	**0.0563**
TOTAL		***59.15***	***3.43***	***6.46***	***0.01***	***0.33***	***0.17***
Onsite	**2022 Winter**						
Archit. Coating		58.7508				0	0
Off-Road		0.3316	3.3828	5.6686	8.89E-03	0.1184	0.1154
Total		**59.0825**	**3.3828**	**5.6686**	**8.89E-03**	**0.1184**	**0.1154**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0
Worker		0.0741	0.0558	0.7227	1.94E-03	0.2075	0.0563
Total		**0.0741**	**0.0558**	**0.7227**	**1.94E-03**	**0.2075**	**0.0563**
TOTAL		***59.16***	***3.44***	***6.39***	***0.01***	***0.33***	***0.17***
Onsite	**2022**						
Archit. Coating		58.75	0.00	0.00	0.00	0.00	0.00
Off-Road		0.33	3.38	5.67	0.01	0.12	0.12
Total		**59.08**	**3.38**	**5.67**	**0.01**	**0.12**	**0.12**
Offsite							
Hauling		0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.07	0.06	0.79	0.00	0.21	0.06
Total		**0.07**	**0.06**	**0.79**	**0.00**	**0.21**	**0.06**
TOTAL		***59.16***	***3.44***	***6.46***	***0.01***	***0.33***	***0.17***

Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**						
Off-Road		0.1341	1.3647	1.8227	2.53E-03	0.0734	0.0675
Total		**0.1341**	**1.3647**	**1.8227**	**2.53E-03**	**0.0734**	**0.0675**
Offsite							
Hauling		0	0	0	0	0	0
Vendor		0	0	0	0	0	0

	Worker	0.0104	7.58E-03	0.1181	3.10E-04	0.0311	8.45E-03
	Total	**0.0104**	**7.58E-03**	**0.1181**	**3.10E-04**	**0.0311**	**8.45E-03**
TOTAL		***0.14***	***1.37***	***1.94***	***0.00***	***0.10***	***0.08***
Onsite		**2022 Winter**					
	Off-Road	0.1341	1.3647	1.8227	2.53E-03	0.0734	0.0675
	Total	**0.1341**	**1.3647**	**1.8227**	**2.53E-03**	**0.0734**	**0.0675**
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0111	8.37E-03	0.1084	2.90E-04	0.0311	8.45E-03
	Total	**0.0111**	**8.37E-03**	**0.1084**	**2.90E-04**	**0.0311**	**8.45E-03**
TOTAL		***0.15***	***1.37***	***1.93***	***0.00***	***0.10***	***0.08***
Onsite		**2022**					
	Off-Road	0.13	1.36	1.82	0.00	0.07	0.07
	Total	**0.13**	**1.36**	**1.82**	**0.00**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.12	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.12**	**0.00**	**0.03**	**0.01**
TOTAL		***0.15***	***1.37***	***1.94***	***0.00***	***0.10***	***0.08***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building Demolition	0.37	3.42	4.04	0.01	0.28	0.14
Building Demolition & Asphalt Demolition	0.82	10.13	8.76	0.04	2.10	0.57
Building Demolition	0.37	3.42	4.04	0.01	0.28	0.14
Site Preparation	0.40	3.87	3.36	0.01	0.48	0.23
Site Preparation & Building Construction	1.47	12.65	17.66	0.04	2.05	0.85
Site Preparation, Building Construction, & Rough Grading	6.57	89.26	57.27	0.22	8.20	3.69
Building Construction & Rough Grading	6.18	85.39	53.91	0.22	7.72	3.45
Building Construction, Rough Grading, & Utility Trenching	6.43	87.81	57.32	0.22	7.90	3.59
Building Construction & Utility Trenching	1.33	11.21	17.71	0.04	1.75	0.76
Building Construction	1.07	8.78	14.30	0.03	1.57	0.62
Building Construction & Fine Grading	1.41	11.26	17.41	0.04	1.77	0.77
Building Construction & Architectural Coating	60.23	12.22	20.76	0.04	1.89	0.80
Building Construction & Finishing/Landscaping	1.22	10.16	16.24	0.04	1.67	0.70
Finishing/Landscaping	0.15	1.37	1.94	0.00	0.10	0.08
MAX DAILY	**60**	**89**	**57**	**0**	**8**	**4**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2020.4.0

Building Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**				
	Fugitive Dust			0.0953	0.0144
	Off-Road	3.2204	3.7849	0.1119	0.103
	Total	**3.2204**	**3.7849**	**0.2072**	**0.1174**
TOTAL		***3.22***	***3.78***	***0.21***	***0.12***
Onsite	**2022 Winter**				
	Fugitive Dust			0.0953	0.0144
	Off-Road	3.2204	3.7849	0.1119	0.103
	Total	**3.2204**	**3.7849**	**0.2072**	**0.1174**
TOTAL		***3.22***	***3.78***	***0.21***	***0.12***
Onsite	**2022**				
	Fugitive Dust	0.00	0.00	0.10	0.01
	Off-Road	3.22	3.78	0.11	0.10
	Total	**3.22**	**3.78**	**0.21**	**0.12**
TOTAL		***3.22***	***3.78***	***0.21***	***0.12***

Asphalt Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**				
	Fugitive Dust			1.2922	0.1957
	Off-Road	3.2204	3.7849	0.1119	0.103
	Total	**3.2204**	**3.7849**	**1.4041**	**0.2986**
TOTAL		***3.22***	***3.78***	***1.40***	***0.30***
Onsite	**2022 Winter**				
	Fugitive Dust			1.2922	0.1957
	Off-Road	3.2204	3.7849	0.1119	0.103
	Total	**3.2204**	**3.7849**	**1.4041**	**0.2986**
TOTAL		***3.22***	***3.78***	***1.40***	***0.30***
Onsite	**2022**				
	Fugitive Dust	0.00	0.00	1.29	0.20
	Off-Road	3.22	3.78	0.11	0.10
	Total	**3.22**	**3.78**	**1.40**	**0.30**
TOTAL		***3.22***	***3.78***	***1.40***	***0.30***

Site Preparation

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Fugitive Dust				0.2267	0.0245
	Off-Road		3.7621	3.2089	0.2101	0.1933
	Total		**3.7621**	**3.2089**	**0.4367**	**0.2177**
TOTAL			***3.76***	***3.21***	***0.44***	***0.22***
Onsite		**2022 Winter**				
	Fugitive Dust				0.2267	0.0245
	Off-Road		3.7621	3.2089	0.2101	0.1933
	Total		**3.7621**	**3.2089**	**0.4367**	**0.2177**
TOTAL			***3.76***	***3.21***	***0.44***	***0.22***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	0.23	0.02
	Off-Road		3.76	3.21	0.21	0.19
	Total		**3.76**	**3.21**	**0.44**	**0.22**
TOTAL			***3.76***	***3.21***	***0.44***	***0.22***

Building Construction

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Off-Road		6.5142	9.7087	0.279	0.2567
	Total		**6.5142**	**9.7087**	**0.279**	**0.2567**
TOTAL			***6.51***	***9.71***	***0.28***	***0.26***
Onsite		**2022 Winter**				
	Off-Road		6.5142	9.7087	0.279	0.2567
	Total		**6.5142**	**9.7087**	**0.279**	**0.2567**
TOTAL			***6.51***	***9.71***	***0.28***	***0.26***
Onsite		**2022**				
	Off-Road		6.51	9.71	0.28	0.26
	Total		**6.51**	**9.71**	**0.28**	**0.26**
TOTAL			***6.51***	***9.71***	***0.28***	***0.26***

Rough Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**				
	Fugitive Dust				1.1662	0.1274
	Off-Road		47.4838	32.7612	1.8373	1.6903
	Total		**47.4838**	**32.7612**	**3.0036**	**1.8177**
TOTAL			***47.48***	***32.76***	***3.00***	***1.82***

Onsite		**2022 Winter**			
	Fugitive Dust			1.1662	0.1274
	Off-Road	47.4838	32.7612	1.8373	1.6903
	Total	**47.4838**	**32.7612**	**3.0036**	**1.8177**
TOTAL		***47.48***	***32.76***	***3.00***	***1.82***
Onsite		**2022**			
	Fugitive Dust	0.00	0.00	1.17	0.13
	Off-Road	47.48	32.76	1.84	1.69
	Total	**47.48**	**32.76**	**3.00**	**1.82**
TOTAL		***47.48***	***32.76***	***3.00***	***1.82***

Utility Trenching

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**			
	Off-Road	2.4086	3.2169	0.1295	0.1192
	Total	**2.4086**	**3.2169**	**0.1295**	**0.1192**
TOTAL		***2.41***	***3.22***	***0.13***	***0.12***
Onsite		**2022 Winter**			
	Off-Road	2.4086	3.2169	0.1295	0.1192
	Total	**2.4086**	**3.2169**	**0.1295**	**0.1192**
TOTAL		***2.41***	***3.22***	***0.13***	***0.12***
Onsite		**2022**			
	Off-Road	2.41	3.22	0.13	0.12
	Total	**2.41**	**3.22**	**0.13**	**0.12**
TOTAL		***2.41***	***3.22***	***0.13***	***0.12***

Fine Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022 Summer**			
	Fugitive Dust			0	0
	Off-Road	2.3606	2.8848	0.1337	0.123
	Total	**2.3606**	**2.8848**	**0.1337**	**0.123**
TOTAL		***2.36***	***2.88***	***0.13***	***0.12***
Onsite		**2022 Winter**			
	Fugitive Dust			0	0
	Off-Road	2.3606	2.8848	0.1337	0.123
	Total	**2.3606**	**2.8848**	**0.1337**	**0.123**
TOTAL		***2.36***	***2.88***	***0.13***	***0.12***
Onsite		**2022**			
	Fugitive Dust	0.00	0.00	0.00	0.00
	Off-Road	2.36	2.88	0.13	0.12
	Total	**2.36**	**2.88**	**0.13**	**0.12**
TOTAL		***2.36***	***2.88***	***0.13***	***0.12***

Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**				
	Archit. Coating			0	0
	Off-Road	3.3828	5.6686	0.1184	0.1154
	Total	**3.3828**	**5.6686**	**0.1184**	**0.1154**
TOTAL		***3.38***	***5.67***	***0.12***	***0.12***
Onsite	**2022 Winter**				
	Archit. Coating			0	0
	Off-Road	3.3828	5.6686	0.1184	0.1154
	Total	**3.3828**	**5.6686**	**0.1184**	**0.1154**
TOTAL		***3.38***	***5.67***	***0.12***	***0.12***
Onsite	**2022**				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	3.38	5.67	0.12	0.12
	Total	**3.38**	**5.67**	**0.12**	**0.12**
TOTAL		***3.38***	***5.67***	***0.12***	***0.12***

Finishing/Landscaping

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022 Summer**				
	Off-Road	1.3647	1.8227	0.0734	0.0675
	Total	**1.3647**	**1.8227**	**0.0734**	**0.0675**
TOTAL		***1.36***	***1.82***	***0.07***	***0.07***
Onsite	**2022 Winter**				
	Off-Road	1.3647	1.8227	0.0734	0.0675
	Total	**1.3647**	**1.8227**	**0.0734**	**0.0675**
TOTAL		***1.36***	***1.82***	***0.07***	***0.07***
Onsite	**2022**				
	Off-Road	1.36	1.82	0.07	0.07
	Total	**1.36**	**1.82**	**0.07**	**0.07**
TOTAL		***1.36***	***1.82***	***0.07***	***0.07***

	NOx	CO	PM10 Total	PM2.5 Total
Building Demolition	3.22	3.78	0.21	0.12
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Building Demolition & Asphalt Demolition	6.44	7.57	1.61	0.42
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No

Building Demolition	3.22	3.78	0.21	0.12
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Site Preparation	3.76	3.21	0.44	0.22
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Site Preparation & Building Construction	10.28	12.92	0.72	0.47
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Site Preparation, Building Construction, & Rough Grading	57.76	45.68	3.72	2.29
5-Acre LST	**203**	**1,733**	**91.41**	**29.18**
Exceed Threshold?	No	No	No	No
Building Construction & Rough Grading	54.00	42.47	3.28	2.07
5-Acre LST	**203**	**1,733**	**91.41**	**29.18**
Exceed Threshold?	No	No	No	No
Building Construction, Rough Grading, & Utility Trenching	56.41	45.69	3.41	2.19
5-Acre LST	**203**	**1,733**	**91.41**	**29.18**
Exceed Threshold?	No	No	No	No
Building Construction & Utility Trenching	8.92	12.93	0.41	0.38
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Building Construction	6.51	9.71	0.28	0.26
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Building Construction & Fine Grading	8.87	12.59	0.41	0.38
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Building Construction & Architectural Coating	9.90	15.38	0.40	0.37
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Building Construction & Finishing/Landscaping	7.88	11.53	0.35	0.32
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No
Finishing/Landscaping	1.36	1.82	0.07	0.07
1-acre or Less LST	**89**	**623**	**61.73**	**17.79**
Exceed Threshold?	No	No	No	No

Regional Operation Emissions Worksheet*

*CalEEMod, Version 2020.4.0

Existing Land Use - 2022

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.46	0.00	0.02	0.00	0.00	0.00
Energy	0.00	0.02	0.01	0.00	0.00	0.00
Mobile - Passenger	0.33	0.27	3.64	0.01	0.80	0.21
Mobile - Trucks	0.16	5.03	1.22	0.02	0.87	0.29
Total	**1.94**	**5.31**	**4.89**	**0.03**	**1.67**	**0.51**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.46	0.00	0.02	0.00	0.00	0.00
Energy	0.00	0.02	0.01	0.00	0.00	0.00
Mobile - Passenger	0.32	0.29	3.51	0.01	0.80	0.21
Mobile - Trucks	0.15	5.23	1.22	0.02	0.87	0.29
Total	**1.94**	**5.54**	**4.77**	**0.03**	**1.67**	**0.51**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.46180	0.00020	0.02210	0	0.00008	0.00008
Energy	0.00193	0.01750	0.01470	0.00011	0.00133	0.00133
Mobile - Passenger	0.32610	0.29210	3.63890	0.00756	0.79590	0.21460
Mobile - Trucks	0.15500	5.23000	1.22210	0.02340	0.87440	0.29050
Total	**1.94**	**5.54**	**4.89**	**0.03**	**1.67**	**0.51**

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.95	0.00	0.03	0.00	0.00	0.00
Energy	0.01	0.11	0.09	0.00	0.01	0.01
Mobile - Passenger	0.73	0.60	8.21	0.02	1.80	0.48
Mobile - Trucks	0.47	15.65	3.68	0.07	2.56	0.85
Offroad Equipment	1.00	6.22	35.85	0.05	0.36	0.33
Total	**5.17**	**22.58**	**47.85**	**0.14**	**4.73**	**1.67**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.95	0.00	0.03	0.00	0.00	0.00
Energy	0.01	0.11	0.09	0.00	0.01	0.01
Mobile - Passenger	0.72	0.66	7.92	0.02	1.80	0.48
Mobile - Trucks	0.46	16.28	3.70	0.07	2.56	0.85
Offroad Equipment	1.00	6.22	35.85	0.05	0.36	0.33
Total	**5.15**	**23.27**	**47.58**	**0.14**	**4.73**	**1.67**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.94990	0.00026	0.02890	0	0.00010	0.00010
Energy	0.01190	0.10810	0.09080	0.00065	0.00821	0.00821
Mobile - Passenger	0.73360	0.65860	8.20620	0.01710	1.79650	0.48440
Mobile - Trucks	0.46840	16.27840	3.69770	0.07040	2.56340	0.84710
Offroad Equipment	1.00456	6.22223	35.84559	0.05275	0.35907	0.33034
Total	**5.17**	**23.27**	**47.85**	**0.14**	**4.73**	**1.67**
Regional Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Net Change

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.49	0.00	0.01	0.00	0.00	0.00
Energy	0.01	0.09	0.08	0.00	0.01	0.01
Mobile - Passenger	0.41	0.33	4.57	0.01	1.00	0.27
Mobile - Trucks	0.31	10.62	2.46	0.05	1.69	0.56
Offroad Equipment	1.00	6.22	35.85	0.05	0.36	0.33
Total	**3.22**	**17.27**	**42.96**	**0.11**	**3.06**	**1.16**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.49	0.00	0.01	0.00	0.00	0.00
Energy	0.01	0.09	0.08	0.00	0.01	0.01
Mobile - Passenger	0.40	0.37	4.40	0.01	1.00	0.27
Mobile - Trucks	0.31	11.05	2.48	0.05	1.69	0.56
Offroad Equipment	1.00	6.22	35.85	0.05	0.36	0.33
Total	**3.22**	**17.73**	**42.81**	**0.11**	**3.06**	**1.16**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.48810	0.00006	0.00680	0	0.00002	0.00002
Energy	0.00997	0.09060	0.07610	0.00054	0.00688	0.00688
Mobile - Passenger	0.40750	0.36650	4.56730	0.00954	1.00060	0.26980
Mobile - Trucks	0.31340	11.04840	2.47560	0.04700	1.68900	0.55660
Offroad Equipment	1.00456	6.22223	35.84559	0.05275	0.35907	0.33034
Total	**3.22**	**17.73**	**42.96**	**0.11**	**3.06**	**1.16**
Regional Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Localized Operation Emissions Worksheet*

*CalEEMod, Version 2020.4.0 and EMFAC2017, Version 1.0.3

Unmitigated

Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00026	0.03	0.00010	0.00010
Truck Idling	1.10	0.40	0.00	0.00
Offroad Equipment	6.22	35.85	0.36	0.33
Total	**7.33**	**36.27**	**0.36**	**0.33**

Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.03	0.00	0.00
Truck Idling	1.10	0.40	0.00	0.00
Offroad Equipment	6.22	35.85	0.36	0.33
Total	**7.33**	**36.27**	**0.36**	**0.33**

Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.03	0.00	0.00
Truck Idling	1.10	0.40	0.003	0.00
Offroad Equipment	6.222	35.85	0.36	0.33
Total	**7.33**	**36.27**	**0.36**	**0.33**
5-Acre-LST	**202.99**	**1,732.86**	**22.76**	**7.71**
Exceeds Thresholds?	No	No	No	No

GHG Emissions Inventory

Existing Project - 2021

Area	**5.72E-03**	$MTCO_2e$/Year**	0.001%
Energy	**76**	$MTCO_2e$/Year	10.432%
Mobile - Passenger	**127**	$MTCO_2e$/Year	17.424%
Mobile - Trucks	**445**	$MTCO_2e$/Year	60.803%
Solid Waste	**82**	$MTCO_2e$/Year	11.179%
Water	**1**	$MTCO_2e$/Year	0.161%
Total	**731**	**$MTCO_2e$/Year**	100%

*CalEEMod, Version 2020.4.0

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

***EMFAC2017, Version 1.0.3

Proposed Project

Construction

	$MTCO_2e$ Total*
2022	447.9612

**CalEEMod, Version 2020.4.0*

Operation*

Area	**7.48E-03**	$MTCO_2e$/Year**	0%
Energy	**166**	$MTCO_2e$/Year	6%
Mobile - Passenger	**280**	$MTCO_2e$/Year	9%
Mobile - Trucks	**1,306**	$MTCO_2e$/Year	44%
Diesel Offroad Equipment	**945**	$MTCO_2e$/Year	32%
Electric Offroad Equipment	**78**	$MTCO_2e$/Year	3%
Solid Waste	**162**	$MTCO_2e$/Year	5%
Water	**2**	$MTCO_2e$/Year	0%
Amortized Construction Emissions****	**15**	$MTCO_2e$/Year	1%
Total	**2,954**	**$MTCO_2e$/Year**	100%
SCAQMD Bright-Line Screening Threshold	3,000	$MTCO_2e$/Year	
Exceed Threshold?	**No**		

*CalEEMod, Version 2020.4.0

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

***EMFAC2017, Version 1.0.3

**** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

Net Change

Area	**1.76E-03**	$MTCO_2e$/Year**	0%
Energy	**90**	$MTCO_2e$/Year	3%
Mobile - Passenger	**152**	$MTCO_2e$/Year	5%
Mobile - Trucks	**862**	$MTCO_2e$/Year	29%
Diesel Offroad Equipment	**945**	$MTCO_2e$/Year	32%
Electric Offroad Equipment	**78**	$MTCO_2e$/Year	3%
Solid Waste	**81**	$MTCO_2e$/Year	3%
Water	**0.49**	$MTCO_2e$/Year	0%
Amortized Construction Emissions****	**15**	$MTCO_2e$/Year	1%
Total	**2,223**	**$MTCO_2e$/Year**	75%
SCAQMD Bright-Line Screening Threshold	3,000	$MTCO_2e$/Year	
Exceed Threshold?	**No**		

Electric-Powered Off-Road Equipment Worksheet

Electric Forklifts

Number of Forklifts:[1]	5	
Daily Hours of Operation:[1]	7	hr/unit/day
Total Daily Hours of Operation:	35	hours/day
Operation Days Per Year:[1]	365	Days
Total Annual Hours of Operation:	12,775	hours/year
Power Consumption:[2]	8.7	kilowatt hour/hour/unit
Total Annual Power Consumption:	111,143	kWh/yr
SoCal Edison CO2e Intensity Factor:[3]	512	pounds/megawatt hour
Total Annual GHG Emissions:	25.81	$MTCO_2e/yr$

[1] Based on information provided by the applicant.

[2] EPRI. 2021, August 10 (accessed). Forklift (Lift Truck) Comparison with Capital Costs. https://et.epri.com/ForkliftCalculator.html?ver=1.0

[3] Based on CO_2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf

Electric Yard Truck

Number of Yard Hostlers:[1]	10	
Daily Hours of Operation:[1]	7	hr/unit/day
Total Daily Hours of Operation:	70	hours/day
Operation Days Per Year:[1]	365	Days
Total Annual Hours of Operation:	25,550	hours/year
Power Consumption:[2]	8.75	kilowatt hour/hour/unit
Total Annual Power Consumption:	223,563	kWh/yr
SoCal Edison CO2e Intensity Factor:[3]	512	pounds/megawatt hour
Total Annual GHG Emissions:	51.92	$MTCO_2e/yr$

[1] Based on information provided by the applicant.

[2] Transpower. 2015, July 21. Electric Yard Tractor Demonstration Project: Final Report for San Joaquin Valley Air Pollution Constol District (SJVAPCD) Technology Advancement Program Agreement Number C-21516-A Electric Yard Tracot Demonstration ("EYTD") Project. http://valleyair.org/grants/documents/technologyadvancement/C-21516_TransPower_FinalReport.pdf

[3] Based on CO_2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf

Truck Idling Emissions

Source: California Air Resources Board. EMFAC2017 Project Analysis, Version 1.0.3. https://arb.ca.gov/emfac/project-analysis (Los Angeles County - South Coast Air Basin, year 2022, aggregated emission rates for diesel vehicles)

Vehicle Type	Truck Trips	Trucks	Minutes of Idling per Truck	Minutes per hour
MHDT	37	19	30	0.5
HHDT	0	0	30	0.5

Criteria Air Pollutants, Maximum Summer/Winter

			lbs/day			
Truck Idling	ROG	NOx	CO	SO2	PM10	PM2.5
MHDT	0.01532	1.10380	0.39693	0.00130	0.00250	0.00239
HHDT	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	0.01532	1.10380	0.39693	0.00130	0.00250	0.00239

Truck Idling Emissions Factors

Source: California Air Resources Board. EMFAC2017 Project Analysis, Version 1.0.3. https://arb.ca.gov/emfac/project-analysis (Los Angeles County - South Coast Air Basin, year 2022, aggregated emission rates for diesel vehicles)

Annual — g/hour

Region	Calendar Year	Vehicle Category	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	CH4_IDLEX	PM10_IDLEX	PM2_5_IDLEX	SOx_IDLEX
Los Angeles (SC)	2022	MHDT	0.73153861	18.95193367	52.70260851	6483.531035	0.033978074	0.1194626	0.1142947	0.06185592
Los Angeles (SC)	2022	HHDT	2.36809514	32.09748951	32.49062413	5976.699392	0.109991886	0.0183329	0.01753986	0.05702051

Max Rate — lbs/hour

Region	Calendar Year	Vehicle Category	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	CH4_IDLEX	PM10_IDLEX	PM2_5_IDLEX	SOx_IDLEX
Los Angeles (SC)	2022	MHDT	0.002	0.042	0.116	14.294	0.000	0.000	0.000	0.000
Los Angeles (SC)	2022	HHDT	0.005	0.071	0.072	13.176	0.000	0.000	0.000	0.000

Annual — g/sec

Region	Calendar Year	Vehicle Category	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	CH4_IDLEX	PM10_IDLEX	PM2_5_IDLEX	SOx_IDLEX
Los Angeles (SC)	2022	MHDT	0.00020321	0.005264426	0.014639613	1.800980843	9.43835E-06	3.318E-05	3.1749E-05	1.7182E-05
Los Angeles (SC)	2022	HHDT	0.0006578	0.008915969	0.009025173	1.660194276	3.05533E-05	5.092E-06	4.8722E-06	1.5839E-05

Off-Road Equipment Emissions Worksheet: Forklifts (Diesel)

OFFROAD2017*

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
Los Angeles (SC)	2022	Industrial - Forklifts	Aggregate	100	Diesel	0.046704858	0.436140326	0.485819151	0.000645805	0.028701942	0.026405787	69.97602956	2270295.214	2652818.911	3480.237342

**OFFROAD2017, Version 1.0.1., https://www.arb.ca.gov/orion/*

Calculated Emission Rates

Total Annual Hours	2652818.911	**Conversion Rate**	
Total Population	3480.237342	Grams/Pound	453.592
Total Hours/Unit	762.2522976		
Hours/Unit/Day	2.088362459		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.046704858	0.436140326	0.485819151	0.000645805	0.028701942	0.026405787	69.97602956
Pounds/Day	93.40971578	872.2806527	971.6383028	1.291610248	57.4038846	52.81157383	139952.0591
lbs/Day/Unit	***0.026840042***	***0.250638266***	***0.279187368***	***0.000371127***	***0.016494244***	***0.015174705***	***40.21336632***
lbs/hour/unit	0.012852195	0.12001665	0.133687218	0.000177712	0.007898171	0.007266317	19.25593239
lbs/min/unit	0.000214203	0.002000277	0.00222812	2.96187E-06	0.000131636	0.000121105	0.320932206
grams/min/unit	0.097160881	0.90730987	1.010657545	0.001343479	0.059709121	0.054932391	145.5722814
grams/sec/unit	0.001619348	0.015121831	0.016844292	2.23913E-05	0.000995152	0.00091554	2.42620469

Project Emissions

Number of Forklifts[1]

Fuel Type	# of Forklifts
Diesel Powered	5

			4.19	kwh	
			146.65	kWh/day	
			53527.25	kWh/yr	
			53.52725	MWh/yr	
Daily Hours of Operation	7	hr/unit/day	509	lbs/MWh	
Total Daily Op Hours	35	hours/day	146.65	12.35829561	MTCO2e/yr
Days Per Year	365	days/year (Mon-Sun workweek)			

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
				Pound Per Day				
Emission Rate (lb/hour/unit)	**0.012852195**	**0.12001665**	**0.133687218**	**0.000177712**	**0.007898171**	**0.007266317**	**19.25593239**	
Total Emissions (lb)	0.450	4.201	4.679	0.006	0.276	0.254	673.958	
				Tons Per Year				**CO2/MT/yr**
	0.082	0.767	0.854	0.001	0.050	0.046	122.997	111.581

(1) Based on information provided by the applicant.

Off-Road Equipment Emissions Worksheet: Yard Trucks (Diesel)

OFFROAD2017*

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	NOx_tpd	CO_tpd	SOx_tpd	PM10_tpd	PM2_5_tpd	CO2_tpd	Fuel_gpy	Total_Activity_hpy	Total_Population
Los Angeles (SC)	2022	CHE - Rail Yard Tractor	Aggregate	175	Diesel	0.015721987	0.057296166	0.883301036	0.001318661	0.002341823	0.002154478	142.6695358	4628755.966	1448241.899	337.3412772

*OFFROAD2017, Version 1.0.1., https://www.arb.ca.gov/orion/

Calculated Emission Rates

Total Annual Hours	1448241.899	**Conversion Rate**	
Total Population	337.3412772	Grams/Pound	453.592
Total Hours/Unit	4293.106113		
Hours/Unit/Day	11.76193456		

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2
Tons/Day	0.015721987	0.057296166	0.883301036	0.001318661	0.002341823	0.002154478	142.6695358
Pounds/Day	31.44397357	114.5923329	1766.602073	2.637321618	4.683646916	4.308955163	285339.0716
lbs/Day/Unit	***0.093211165***	***0.339692592***	***5.236839344***	***0.007817963***	***0.013884002***	***0.012773282***	***845.8468942***
lbs/hour/unit	0.007924816	0.028880674	0.445236225	0.000664683	0.001180418	0.001085985	71.91392625
lbs/min/unit	0.00013208	0.000481345	0.007420604	1.10781E-05	1.96736E-05	1.80997E-05	1.198565437
grams/min/unit	0.059910551	0.218334041	3.365926499	0.005024918	0.008923804	0.0082099	543.6596939
grams/sec/unit	0.000998509	0.003638901	0.056098775	8.37486E-05	0.00014873	0.000136832	9.060994899

Project Emissions

Number of Yard Trucks[1]

Truck Type	Trucks/Day
Diesel Powered	10

Daily Hours of Operation	7	hr/unit/day
Total Daily Op Hours	70	hours/day
Days Per Year	365	days/year

8.75	kwh
612.5	kWh/day
223562.5	kWh/yr
223.5625	MWh/yr
509	lbs/MWh
51.6157931	MTCO2e/yr

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	
			Pound Per Day					
Emission Rate (lb/hour/unit)	**0.007924816**	**0.028880674**	**0.445236225**	**0.000664683**	**0.001180418**	**0.001085985**	**71.91392625**	
Total Emissions (lb)	0.555	2.022	31.167	0.047	0.083	0.076	5033.975	
			Tons Per Year					**CO2/MT/yr**
	0.101	0.369	5.688	0.008	0.015	0.014	918.700	833.431

(1) Based on information provided by the applicant.

Construction-Related Fuel/Energy Usage

CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2022	310,553	10,953	2,276	52	4,813	1,583
Total	**310,553**	**10,953**	**2,276**	**52**	**4,813**	**1,583**

CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2022	2,957	587	33,079	4,148
Total	**2,957**	**587**	**33,079**	**4,148**

CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2022	66	16	76,903	11,665
Total	**66**	**16**	**76,903**	**11,665**

CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2022	475	20,606
Total	**475**	**20,606**

CONSTRUCTION TOTAL

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2022	313,576	12,031	112,258	36,470	4,813	1,583
Total	**313,576**	**12,031**	**112,258**	**36,470**	**4,813**	**1,583**

Operation-Related Vehicle Fuel/Energy Usage

Existing Land Use

EXISTING LAND USE COMMUTE

Vehicle Type	Gas		Diesel		CNG		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	Gallons	VMT	kWh
Passenger Vehicles	363,903	13,900	8,698	342	0	0	5,584	1,836
Trucks	0	0	321,294	39,637	0	0	0	0
Total	**363,903**	**13,900**	**329,992**	**39,979**	**0**	**0**	**5,584**	**1,836**

Proposed Project

PROPOSED COMMUTE

Vehicle Type	Gas		Diesel		CNG		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	Gallons	VMT	kWh
Passenger Vehicles	821,437	31,377	19,634	771	0	0	12,606	4,112
Trucks	0	0	949,175	120,819	0	0	0	0
Offroad Equipment	0	0	0	99,173	0	0	0	334,705
Total	**821,437**	**31,377**	**968,809**	**220,763**	**0**	**0**	**12,606**	**338,817**

Net Change

NET CHANGE COMMUTE

Vehicle Type	Gas		Diesel		CNG		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	Gallons	VMT	kWh
Passenger Vehicles	457,534	17,476	10,936	429	0	0	7,021	2,276
Trucks	0	0	627,881	81,182	0	0	0	0
Offroad Equipment	0	0	0	99,173	0	0	0	334,705
Total	**457,534**	**17,476**	**638,817**	**180,785**	**0**	**0**	**7,021**	**336,981**

OPERATION OFF-ROAD EQUIPMENT

Year	Diesel gallons	Electricity kWh
2022	99,173	334,705
Total	**99,173**	**334,705**

Construction Worker Trips Fuel Usage Worksheet

Note: Per CalEEMod methodology, worker vehicles are "LD_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity[1]	Daily trips[1,2]	Trip miles[2]	Trip days[1]	Annual VMT
				0
2022				
Building Demolition	5	14.7	31	2,279
Asphalt Demolition	5	14.7	8	588
Site Preparation	3	14.7	5	221
Building Construction	100	14.7	132	194,040
Rough Grading	15	14.7	22	4,851
Utility Trenching	5	14.7	21	1,544
Fine Grading	5	14.7	12	882
Architectural Coating	20	14.7	21	6,174
Finishing/Landscaping	3	14.7	34	1,499
				0
				0

[1] *Based on information provided.*

[2] *Based on CalEEMod defaults.*

Year	LDA VMT	LDT1 VMT	LDT2 VMT	Gasoline[1]						Diesel[1]						Electricity[1]			
				LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh
2022	212,077	53,019	53,019	30.28	6,797	26.12	2,012	24.33	2,144	47.29	40	21.78	1	34.76	11	3.04	1,436	3.04	147

Gasoline		Diesel		Electricity	
VMT	Gallons	VMT	Gallons	VMT	kWh
310,553	10,953	2,276	52	4,813	1,583
310,553	**10,953**	**2,276**	**52**	**4,813**	**1,583**

[1] *EMFAC2017 v1.0.3.*

Year	VMT from gasoline			VMT from diesel			VMT from electricity	
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1
2021	97.06%	99.12%	98.39%	0.88%	0.04%	0.72%	2.06%	0.84%
2022	97.06%	99.12%	98.39%	0.88%	0.04%	0.72%	2.06%	0.84%

Appendix C: Evidence Used to Define the Average Number of KWH Required to Displace a Gallong of Gasoline

Table A 3: Evidence from U.S. Department of Energy and U.S. Environmental Protection Agency's fuel economy website[32]

Vehicle	Model year	Electric consumption	Gasoline fuel economy	Number of kWh that are equivalent to 1 gallon
Ford Fusion Energi & Ford C-Max Energi	2013	0.34 kWh per mile	43 mpg	14.6
Chevrolet Volt	2013	0.35 kWh per mile	37 mpg	12.9
Chevrolet Volt	2012	0.36 kWh per mile	37 mpg	13.3
Fisker Karma	2012	0.62 kWh per mile	20 mpg	12.4
Toyota Prius	2013	0.29 kWh per mile & 0.2 gal	50 mpg	13.1
Average for five models	-	-	-	13.3 +/- 0.8

Table A 5: Average power consumption per mile traveled over time for different PEV categories

Year range	2012- 2020	2020-2030	2030-2040	2040-2050	2050
Efficiency improvement per year	0.3%	0.8%	0.9%	0.9%	
Year	2012	2020	2030	2040	2050
Relative energy efficiency	1.000	0.976	0.901	0.823	0.752

https://www.fhwa.dot.gov/environment/climate_change/mitigation/publications_and_tools/ev_deployment/page08.cfm

0.34	14.6
0.35	12.9
0.36	13.3
0.34	13.3

Year	Estimated Electric Consumption
2013	0.34
2014	0.34
2015	0.34
2016	0.34
2017	0.34
2018	0.34
2019	0.34
2020	0.33
2021	0.33
2022	0.33
2023	0.33
2024	0.32
2025	0.32
2026	0.32
2027	0.32
2028	0.31
2029	0.31
2030	0.31
2031	0.31
2032	0.30
2033	0.30
2034	0.30
2035	0.29

Vendor Trips Fuel Usage Worksheet

Note: Based on CalEEMod methodology, vendor vehicles HHDT (T7).

Activity[1]	Daily trips[1,2]	Trip miles[2]	Trip days[1]	Annual VMT
2022				
Building Demolition	2	6.9	31	428
Asphalt Demolition	2	6.9	8	110
Site Preparation	2	6.9	5	69
Building Construction	39	6.9	132	35,521
Rough Grading	2	6.9	22	304
Utility Trenching	0	6.9	21	0
Fine Grading	2	6.9	12	166
Architectural Coating	0	6.9	21	0
Finishing/Landscaping	0	6.9	34	0

[1] *Based on information provided.*

[2] *Based on CalEEMod defaults.*

Year	HHDT (T7) VMT	MHDT (T6) VMT	Gasoline[1]				Diesel[1]			
			HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons	HHDT (T7) mpg	HHDT (T7) gallons	MHDT (T6) mpg	MHDT (T6) gallons
2022	18,299	18,299	4.10	4	5.04	583	6.59	2,688	10.52	1,460

[1] *EMFAC2017 v1.0.3.*

Year	VMT from gasoline		VMT from diesel	
	HHDT (T7)	MHDT (T6)	HHDT (T7)	MHDT (T6)
2022	0.08%	16.07%	96.85%	83.93%

VENDOR

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
2,956.69	586.87	33,079	4,148
2,956.69	**586.87**	**33,079**	**4,148**

Truck Haul Trips Fuel Usage Worksheet

Note: Hauling vehicles are HHDT (T7)

Activity	Total Trips[1]	Mi/Trip[1]	Annual VMT
2022			
Building Demolition	34	7	238
Asphalt Demolition	117	28	3,276
Rough Grading	2987	25	74,675

[1] *Based on information provided by the District.*

Year	VMT	Gasoline[1]		Diesel[1]	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2022	78,189	4.10	16	6.59	11,665

[1] *EMFAC2017 v1.0.3.*

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
66	16	76,903	11,665
66	**16**	**76,903**	**11,665**

Year	VMT from gasoline	VMT from diesel
2022	0.08%	98.36%

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2022	475	20,606	0
Total	**475**	**20,606**	**0**

Equipment Type[1]	Number of Equipment[1]	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	Working days[1]	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr[2]	Total Gasoline gallons	Diesel Gal/Hr[2]	Total Diesel gallons	Natural Gas Gal/Hr[2]	Total Natural Gas gallons
2022													
Building Demolition													
Excavators	1	311	*600*	*Diesel*	31	8	248	0.00	0	6.68	1,656	0.00	0
Skid Steer Loaders	1	74.3	*75*	*Diesel*	31	8	248	0.00	0	1.34	334	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	31			0.00	0	0.00	0	0.00	0
Tractors/Loaders/Backhoes			*25*	*Select Fuel Type*	31			0.00	0	0.00	0	0.00	0
Welders			*25*	*Select Fuel Type*	31			0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	31		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	31		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	31		0	0.00	0	0.00	0	0.00	0
Asphalt Demolition													
Excavators	1	311	*600*	*Diesel*	8	8	64	0.00	0	6.68	427	0.00	0
Skid Steer Loaders	1	74.3	*75*	*Diesel*	8	8	64	0.00	0	1.34	86	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	8		0	0.00	0	0.00	0	0.00	0
Site Preparation													
Crawler Tractors	1	130	*175*	*Diesel*	5	8	40	0.00	0	3.31	132	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	5		0	0.00	0	0.00	0	0.00	0
Building Construction													
Aerial Lifts	3	74	*75*	*Diesel*	132	6	2,376	0.00	0	1.15	2,739	0.00	0
Forklifts	3	173	*175*	*Diesel*	132	8	3,168	0.00	0	1.58	5,015	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	132		0	0.00	0	0.00	0	0.00	0
Rough Grading													
Graders	1	179	*300*	*Diesel*	22	8	176	0.00	0	4.58	806	0.00	0
Scrapers	2	365	*600*	*Diesel*	22	8	352	0.00	0	10.55	3,715	0.00	0
Scrapers	2	478	*600*	*Diesel*	22	8	352	0.00	0	10.55	3,715	0.00	0
Tractors/Loaders/Backhoes	1	79	*100*	*Diesel*	22	8	176	0.00	0	1.59	280	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	22		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	22		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	22		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	22		0	0.00	0	0.00	0	0.00	0
Utility Trenching													
Tractors/Loaders/Backhoes	2	70	*75*	*Diesel*	21	8	336	0.00	0	1.37	459	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Fine Grading													
Rollers	1	36	*50*	*Diesel*	12	8	96	0.00	0	0.77	74	0.00	0
Tractors/Loaders/Backhoes	1	79	*100*	*Diesel*	12	8	96	0.00	0	1.59	153	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	12		0	0.00	0	0.00	0	0.00	0
Architectural Coating													
Aerial Lifts	3	74	*75*	*Diesel*	21	8	504	0.00	0	1.15	581	0.00	0
Air Compressors	1	78	*100*	*Gasoline*	21	6	126	3.77	475	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	21		0	0.00	0	0.00	0	0.00	0
Finishing/Landscaping													
Tractors/Loaders/Backhoes	1	79	*100*	*Diesel*	34	8	272	0.00	0	1.59	433	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	34		0	0.00	0	0.00	0	0.00	0
Retail Architectural Coatings													
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	0		0	0.00	0	0.00	0	0.00	0
							TOTAL		**475**		**20,606**		**0**

[1] Based on information provided.

[2] OFFROAD2017 v.1.0.1

Off-Road Operation Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
Year 1	0	99,173	0

Equipment Type[1]	Number of Equipment[1]	Horsepower	OFFROAD2017 Horsepower Category	Fuel Type	Working days[1]	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr[2]	Total Gasoline gallons	Diesel Gal/Hr[2]	Total Diesel gallons	Natural Gas Gal/Hr[2]	Total Natural Gas gallons
Activity 1 *(rename to actual)*													
Forklifts	5	100	*100*	*Diesel*	365	7.00	12,775	0.00	0	0.982	12,543	0.00	0
Yard Tractor	10	175	*175*	*Diesel*	365	7.00	25,550	0.00	0	3.391	86,630	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Activity 2 *(rename to actual)*													
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
Select Equipment Type			*25*	*Select Fuel Type*	365		0	0.00	0	0.00	0	0.00	0
TOTAL									**0**		**99,173**		**0**

[1] Based on information provided.

[2] OFFROAD2017 v.1.0.1

OFFROAD 2022

	Equipment Type	Horsepower HP	Gas				Diesel				Natural Gas			
			Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr
Air Compressors25	Air Compressors	25	425546.2	2891.18	1397595.95	0.304484426	20294	45.5	37040.2	0.54789121	0	0	0	0
Air Compressors50	Air Compressors	50	129761.15	119.78	57896.3	2.24126844	228632.35	274.81	223693.9	1.02207682	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	707183.85	388.45	187770.6	3.766211803	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	86563.4	26.12	12629	6.85433526	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	99207	302.95	113701.15	0.872524157	83201.75	453.6	181138.55	0.459326576	183598.65	413.89	155347.65	1.181856629
Aerial Lifts50	Aerial Lifts	50	207874.8	361.73	130706.5	1.590393745	282188.7887	1140.475579	345146.8993	0.817590392	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	347969.5943	1000.001711	301851.1379	1.152785432	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	372745.3	361.73	130706.5	2.851773248	144416.4648	381.5937638	115340.597	1.252087024	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	30092.65612	47.90105074	14474.13824	2.079063749	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	1798.270451	1.61464216	490.6279125	3.665242856	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	1277.032639	0.538214053	163.5426375	7.808560865	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	7099.25	43.41	5380.1	1.31953867	6832.8	12.68	10300.3	0.66335932	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	1361.45	4.91	529.25	2.572413793	7223.272208	17.74363412	6315.673619	1.143705746	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	11259.9836	13.63458201	6175.496005	1.823332667	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	15457.75	22.49	2401.7	6.436170213	33992.15644	40.53019582	15471.81083	2.197038008	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	5383.75	5.57	594.95	9.049079755	52719.1283	42.77149698	13539.40801	3.89375431	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	75652.99323	43.51859736	14079.84926	5.37313943	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	127419.845	36.04759352	12172.40957	10.46792291	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	68967.7292	7.284228743	4109.103011	16.78413245	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	39472.5925	1.120650576	817.3827113	48.29144531	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	234194.95	6545.81	602731.8	0.388555822	17534.6	176.7	53041.8	0.330580787	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	209710.75	921.34	261821.8	0.80096749	558.45	1.26	755.55	0.739130435	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	30966.6	18.29	11165.35	2.773455378	8913.3	11.1	6449.55	1.382003396	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	30167.25	10.48	6398.45	4.714774672	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	139.5500519	0.703722276	337.097097	0.413975834	0	0	0	0
Cranes50	Cranes	50	4485.85	5.57	2303.15	1.94770206	2260.93939	7.506370945	3279.327721	0.689452102	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	912.0081716	2.34574092	874.6303057	1.042735617	0	0	0	0
Cranes100	Cranes	100	15351.9	11.14	4628.2	3.3170347	51092.59028	88.19985861	39145.3334	1.305202583	0	0	0	0
Cranes175	Cranes	175	1000.1	0.45	189.8	5.269230769	156451.227	156.9300676	71689.13731	2.182356112	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	269770.6591	174.2885504	82158.17267	3.283552328	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	470359.9588	173.5848281	86061.3176	5.465405038	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	9439.022408	2.34574092	1001.912596	9.421003834	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	25984.121	3.753185473	1860.465139	13.96646487	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	7322.68925	20.81908657	7104.759396	1.030673784	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	788.1208444	2.498290388	507.0411405	1.554352854	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	322614.1304	355.1736168	166072.3834	1.942611552	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	352855.5615	235.0474873	106568.0614	3.311081734	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	370164.2176	182.1670075	81293.53505	4.553427494	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	1294398.697	318.7402153	151368.1903	8.551325707	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	13294.01599	2.290099522	967.4687428	13.74102894	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	74650.66314	6.24572597	3457.9635	21.58804254	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	3135.35	10.92	3149.95	0.995365006	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	11906.3	6.44	1554.9	7.657276995	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	22385.45	436.26	65046.65	0.344144549	1744.7	7.62	5037	0.346376812	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	1281.15	4.02	511	2.507142857	0	0	0	0	0	0	0	0
Excavators25	Excavators	25	0	0	0	0	12357.30299	12.36582151	16566.57362	0.745917851	0	0	0	0
Excavators50	Excavators	50	0	0	0	0	292797.4646	509.0014941	372468.2039	0.786100563	0	0	0	0
Excavators75	Excavators	75	0	0	0	0	68.99993976	0.20860717	66.0090264	1.045310672	0	0	0	0
Excavators100	Excavators	100	0	0	0	0	380018.9542	366.7314043	237525.2602	1.599909643	0	0	0	0
Excavators175	Excavators	175	0	0	0	0	802090.9179	469.9919533	278025.7126	2.885159842	0	0	0	0
Excavators300	Excavators	300	0	0	0	0	1024027.992	406.5753737	236932.3704	4.322026536	0	0	0	0
Excavators600	Excavators	600	0	0	0	0	1821199.805	424.098376	272666.6071	6.679218348	0	0	0	0
Excavators750	Excavators	750	0	0	0	0	14503.33389	2.294678867	1125.966245	12.88078924	0	0	0	0
Excavators9999	Excavators	9999	0	0	0	0	50563.86261	3.129107545	2123.965532	23.80634801	0	0	0	0
Forklifts25	Forklifts	25	4310.65	6.94	6252.45	0.689433742	86.20029709	0.483312357	149.0685375	0.578259494	4869.1	3.98	4967.65	0.980161646
Forklifts50	Forklifts	50	3486976.4	1208.73	2174509.4	1.603569246	198567.5427	556.9788404	395097.3182	0.502578817	6468471.6	2689.41	4845123.15	1.335047923
Forklifts75	Forklifts	75	0	0	0	0	17534.02907	48.39462601	23067.4757	0.760119109	0	0	0	0
Forklifts100	Forklifts	100	16104325.6	4265.67	7640873.5	2.107655048	2926261.835	4639.234726	2980270.519	0.981877926	40482310.6	9438.97	17004860.9	2.380631682
Forklifts175	Forklifts	175	1126594.4	155.89	279235.95	4.034560736	867307.5243	859.1842592	547900.9423	1.582964104	3038296.5	345.41	622284.85	4.882485087
Forklifts300	Forklifts	300	0	0	0	0	168204.4643	105.79333	74521.76038	2.257118772	0	0	0	0
Forklifts600	Forklifts	600	0	0	0	0	43590.34931	16.78925315	11226.07402	3.882955806	0	0	0	0
Forklifts750	Forklifts	750	0	0	0	0	677.4028394	0.241656178	52.17398811	12.98353574	0	0	0	0
Forklifts9999	Forklifts	9999	0	0	0	0	3149.397788	0.436941286	344.4026628	9.144522178	0	0	0	0
Generator Sets25	Generator Sets	25	6184899.45	75938.47	8725135.2	0.708860013	530735.55	2585.49	872813.55	0.608074371	0	0	0	0
Generator Sets50	Generator Sets	50	1008286.95	3941.99	452764.25	2.226957959	629690.7	1333.85	450289.55	1.398412866	0	0	0	0
Generator Sets75	Generator Sets	75	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets100	Generator Sets	100	454943.3	761.3	87446.7	5.202521079	0	0	0	0	40730.35	56.63	6515.25	6.251540616
Generator Sets175	Generator Sets	175	74288.45	71.93	8267.25	8.985871965	0	0	0	0	58878.15	46.98	5391.05	10.92146242
Generator Sets300	Generator Sets	300	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets600	Generator Sets	600	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets750	Generator Sets	750	0	0	0	0	0	0	0	0	0	0	0	0
Generator Sets9999	Generator Sets	9999	0	0	0	0	0	0	0	0	0	0	0	0
Graders25	Graders	25	0	0	0	0	56.29162018	0.419259876	95.7872322	0.587673523	0	0	0	0
Graders50	Graders	50	0	0	0	0	1880.479361	6.079268199	2142.520916	0.877694751	0	0	0	0
Graders75	Graders	75	0	0	0	0	811.1768655	1.677039503	533.7743515	1.519699969	0	0	0	0
Graders100	Graders	100	0	0	0	0	43083.52342	61.63120175	23068.91807	1.867600522	0	0	0	0
Graders175	Graders	175	0	0	0	0	489889.8789	329.5382624	155476.0881	3.150901755	0	0	0	0
Graders300	Graders	300	0	0	0	0	1033169.492	297.255252	225712.7945	4.577363433	0	0	0	0
Graders600	Graders	600	0	0	0	0	44405.5389	7.756307703	5944.076694	7.470552819	0	0	0	0
Graders750	Graders	750	0	0	0	0	0	0	0	0	0	0	0	0
Graders9999	Graders	9999	0	0	0	0	35066.52632	1.257779627	916.6838122	38.25367684	0	0	0	0
Off-Highway Tractors25	Off-Highway Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0
Off-Highway Tractors50	Off-Highway Tractors	50	0	0	0	0	121434.6118	195.3332512	128751.3736	0.943171388	0	0	0	0
Off-Highway Tractors75	Off-Highway Tractors	75	0	0	0	0	69787.75283	72.04071435	43903.56474	1.589569167	0	0	0	0
Off-Highway Tractors100	Off-Highway Tractors	100	0	0	0	0	84571.77254	69.77657762	47525.00573	1.779521564	0	0	0	0
Off-Highway Tractors175	Off-Highway Tractors	175	0	0	0	0	132123.2517	54.13345107	37095.19925	3.56173452	0	0	0	0
Off-Highway Tractors300	Off-Highway Tractors	300	0	0	0	0	111319.8201	35.60869595	23142.94067	4.810098323	0	0	0	0
Off-Highway Tractors600	Off-Highway Tractors	600	0	0	0	0	372285.5898	67.30661027	46328.67462	8.035748764	0	0	0	0
Off-Highway Tractors750	Off-Highway Tractors	750	0	0	0	0	16327.02192	1.6466449	1156.359355	14.11933224	0	0	0	0
Off-Highway Tractors9999	Off-Highway Tractors	9999	0	0	0	0	20541.79607	1.029153062	557.488416	36.8470366	0	0	0	0
Off-Highway Trucks25	Off-Highway Trucks	25	0	0	0	0	478.4202804	0.611817466	871.9965583	0.548649276	0	0	0	0
Off-Highway Trucks50	Off-Highway Trucks	50	0	0	0	0	11233.62635	11.01271439	17830.15137	0.630035389	0	0	0	0
Off-Highway Trucks75	Off-Highway Trucks	75	0	0	0	0	3364.676557	1.631513243	2391.642177	1.406847809	0	0	0	0
Off-Highway Trucks100	Off-Highway Trucks	100	0	0	0	0	8301.610574	3.670904797	4801.921736	1.728810054	0	0	0	0
Off-Highway Trucks175	Off-Highway Trucks	175	0	0	0	0	277867.6585	63.62901648	89312.20319	3.111194759	0	0	0	0
Off-Highway Trucks300	Off-Highway Trucks	300	0	0	0	0	566527.0532	107.2719957	136617.6088	4.14680844	0	0	0	0
Off-Highway Trucks600	Off-Highway Trucks	600	0	0	0	0	2423109.69	239.6285076	326191.7107	7.428483344	0	0	0	0
Off-Highway Trucks750	Off-Highway Trucks	750	0	0	0	0	824752.4427	51.59660631	63078.92175	13.07492931	0	0	0	0
Off-Highway Trucks9999	Off-Highway Trucks	9999	0	0	0	0	1456829.184	40.99177023	57992.77992	25.1208717	0	0	0	0
Pavers25	Pavers	25	19126	42.51	16844.75	1.135427952	3317.85	4.75	3912.8	0.847947761	0	0	0	0
Pavers50	Pavers	50	14464.95	15.85	6212.3	2.328437133	8031.548898	24.42914185	8668.167471	0.926556729	0	0	0	0
Pavers75	Pavers	75	0	0	0	0	12268.53505	23.61483712	7984.230128	1.536595871	0	0	0	0
Pavers100	Pavers	100	12997.65	8.68	3416.4	3.804487179	65216.53329	94.45934847	37551.43914	1.73672527	0	0	0	0
Pavers175	Pavers	175	0	0	0	0	106034.6808	80.81974427	31195.54266	3.399033059	0	0	0	0
Pavers300	Pavers	300	0	0	0	0	82805.88655	38.88305077	17492.61032	4.73376386	0	0	0	0
Pavers600	Pavers	600	0	0	0	0	15059.38712	4.275099823	1860.421199	8.094611655	0	0	0	0
Pavers750	Pavers	750	0	0	0	0	3106.322473	0.407152364	192.7861467	16.11278884	0	0	0	0
Pavers9999	Pavers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Paving Equipment25	Paving Equipment	25	405606.25	4653.79	880358.1	0.460728708	3927.4	8.24	6840.1	0.57417892	0	0	0	0
Paving Equipment50	Paving Equipment	50	16914.1	43.24	7570.1	2.234329797	9999.692597	30.08082237	14172.41813	0.705574201	0	0	0	0
Paving Equipment75	Paving Equipment	75	0	0	0	0	1547.978119	3.048731997	1221.491977	1.267284721	0	0	0	0
Paving Equipment100	Paving Equipment	100	6978.8	11.15	1945.45	3.587242026	41578.81811	55.08042475	25401.2751	1.63687917	0	0	0	0
Paving Equipment175	Paving Equipment	175	0	0	0	0	45072.23222	36.78803277	16932.09379	2.661940855	0	0	0	0
Paving Equipment300	Paving Equipment	300	0	0	0	0	30249.93797	15.24365999	7133.921782	4.240295716	0	0	0	0
Paving Equipment600	Paving Equipment	600	0	0	0	0	32397.66168	9.552693591	4444.828439	7.288844131	0	0	0	0
Paving Equipment750	Paving Equipment	750	0	0	0	0	6466.590168	1.016243999	549.7990881	11.76173316	0	0	0	0
Paving Equipment9999	Paving Equipment	9999	0	0	0	0	2934.636621	0.4064976	189.4577939	15.48965899	0	0	0	0
Rollers25	Rollers	25	94553.25	503.55	125395.75	0.754038713	72390.45	272.14	189314.55	0.382381861	0	0	0	0
Rollers50	Rollers	50	18790.2	11.14	6927.7	2.712328767	164688.3147	617.3209126	213769.2814	0.770402153	0	0	0	0
Rollers75	Rollers	75	0	0	0	0	1827.242138	5.86329225	1349.139761	1.354375722	0	0	0	0
Rollers100	Rollers	100	58973.05	20.97	13030.5	4.525770308	255880.2178	455.2427626	151062.27	1.693872453	0	0	0	0
Rollers175	Rollers	175	0	0	0	0	266342.9136	266.3609908	95537.27497	2.787842899	0	0	0	0
Rollers300	Rollers	300	0	0	0	0	44111.51497	34.13273703	10510.37284	4.19695054	0	0	0	0
Rollers600	Rollers	600	0	0	0	0	25854.2926	12.35479438	3794.335973	6.813917582	0	0	0	0
Rollers750	Rollers	750	0	0	0	0	0	0	0	0	0	0	0	0
Rollers9999	Rollers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rough Terrain Forklifts25	Rough Terrain Forklifts	25	0	0	0	0	86.20029709	0.483312357	149.0685375	0.578259494	0	0	0	0
Rough Terrain Forklifts50	Rough Terrain Forklifts	50	3044.1	2.23	927.1	3.283464567	8302.767049	27.54880435	7522.99219	1.103652222	0	0	0	0
Rough Terrain Forklifts75	Rough Terrain Forklifts	75	0	0	0	0	228.8860252	0.724968535	165.9077611	1.379598059	0	0	0	0
Rough Terrain Forklifts100	Rough Terrain Forklifts	100	66758.5	31.68	13096.2	5.09754738	655944.8031	1158.983032	327439.5325	2.003254763	0	0	0	0
Rough Terrain Forklifts175	Rough Terrain Forklifts	175	3763.15	1.13	459.9	8.182539683	144272.8707	202.0245652	55355.22112	2.606310078	0	0	0	0
Rough Terrain Forklifts300	Rough Terrain Forklifts	300	0	0	0	0	10588.81417	9.666247139	2421.811628	4.372269935	0	0	0	0
Rough Terrain Forklifts600	Rough Terrain Forklifts	600	0	0	0	0	3936.757727	1.933249428	494.6867021	7.958082783	0	0	0	0
Rough Terrain Forklifts750	Rough Terrain Forklifts	750	0	0	0	0	677.4028394	0.241656178	52.17398811	12.98353574	0	0	0	0
Rough Terrain Forklifts9999	Rough Terrain Forklifts	9999	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers25	Rubber Tired Dozers	25	0	0	0	0	0	0	0	0	0	0	0	0
Rubber Tired Dozers50	Rubber Tired Dozers	50	0	0	0	0	7315.859953	8.16832542	7759.963377	0.942769907	0	0	0	0
Rubber Tired Dozers75	Rubber Tired Dozers	75	0	0	0	0	7354.833538	6.972960725	5225.805176	1.407406761	0	0	0	0
Rubber Tired Dozers100	Rubber Tired Dozers	100	0	0	0	0	23334.42838	15.53974104	13407.9386	1.740344215	0	0	0	0
Rubber Tired Dozers175	Rubber Tired Dozers	175	0	0	0	0	32858.02555	14.34437635	11272.28161	2.914940088	0	0	0	0
Rubber Tired Dozers300	Rubber Tired Dozers	300	0	0	0	0	35526.72911	11.15673716	7828.466442	4.538146695	0	0	0	0
Rubber Tired Dozers600	Rubber Tired Dozers	600	0	0	0	0	369656.1513	66.94042296	48639.45136	7.599924361	0	0	0	0
Rubber Tired Dozers750	Rubber Tired Dozers	750	0	0	0	0	10568.69103	0.796909797	794.7265775	13.29852471	0	0	0	0
Rubber Tired Dozers9999	Rubber Tired Dozers	9999	0	0	0	0	0	0	0	0	0	0	0	0
Scrapers25	Scrapers	25	0	0	0	0	58.56335263	0.205317872	84.43520914	0.693589241	0	0	0	0
Scrapers50	Scrapers	50	0	0	0	0	466.1193715	1.231907234	441.1739677	1.056543236	0	0	0	0
Scrapers75	Scrapers	75	0	0	0	0	4113.375203	5.543582555	2429.388601	1.693173007	0	0	0	0
Scrapers100	Scrapers	100	0	0	0	0	18538.72607	13.55097958	8195.609758	2.262031334	0	0	0	0
Scrapers175	Scrapers	175	0	0	0	0	250103.4026	133.6619349	59699.21099	4.189392095	0	0	0	0
Scrapers300	Scrapers	300	0	0	0	0	294776.7383	130.5821669	53032.34761	5.55843276	0	0	0	0
Scrapers600	Scrapers	600	0	0	0	0	3652877.582	720.6657322	346083.9734	10.55488801	0	0	0	0
Scrapers750	Scrapers	750	0	0	0	0	56125.42179	9.855257876	3598.816247	15.59552307	0	0

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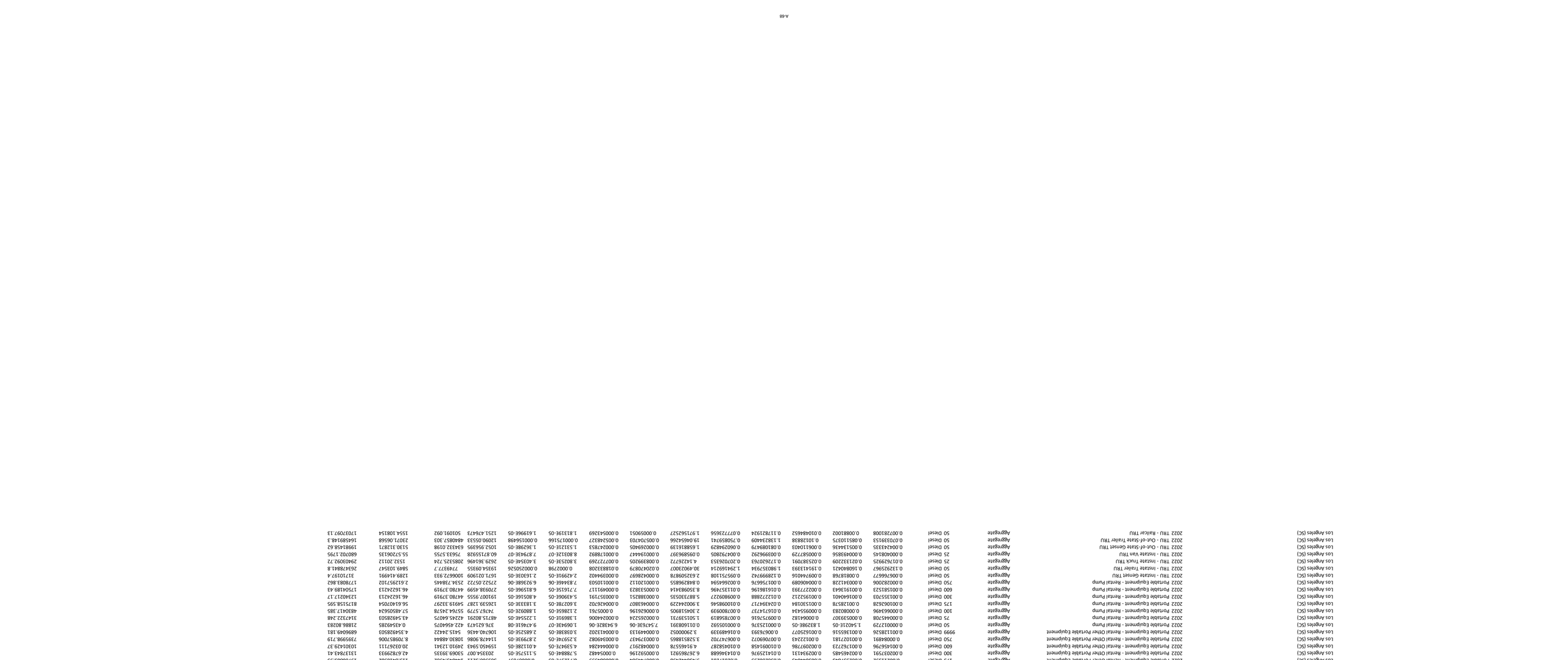

Existing Land Use: Passenger Vehicles

EXISTING LAND USE

Vehicle type	Fleet percent	VMT	
	Warehousing	Warehousing	Total
LDA	56.04%	211,949	211,949
LDT1	6.34%	23,987	23,987
LDT2	19.14%	72,373	72,373
MDV	13.07%	49,426	49,426
LHD1	2.35%	8,880	8,880
LHD2	0.61%	2,292	2,292
MHD	0.00%	0	0
HHD	0.00%	0	0
OBUS	0.00%	0	0
UBUS	0.00%	0	0
MCY	2.45%	9,279	9,279
SBUS	0.00%	0	0
MH	0.00%	0	0
	100.00%	378,186	378,186

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,186	378,186
Total	88.24	88.24	88.24	378,186	378,186

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent	
LDA	97.06%	0.88%	0.00%	2.06%	
LDT1	99.12%	0.04%	0.00%	0.84%	
LDT2	98.39%	0.72%	0.00%	0.89%	
MDV	96.93%	2.32%	0.00%	0.75%	
LHD1	58.29%	41.71%	0.00%	0.00%	
LHD2	36.96%	63.04%	0.00%	0.00%	
MHD	16.07%	83.93%	0.00%	0.00%	<< Equal to T6 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
HHD	0.08%	98.36%	1.56%	0.00%	<< Equal to T7 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
OBUS	40.92%	59.08%	0.00%	0.00%	<< Motor coach, all other buses, and OBUS (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
UBUS	6.98%	0.25%	92.54%	0.23%	
MCY	100.00%	0.00%	0.00%	0.00%	
SBUS	33.67%	66.33%	0.00%	0.00%	
MH	75.55%	24.45%	0.00%	0.00%	

PROPOSED CONDITIONS

Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	205,712	30.28	6,793	1,873	47.29	40	0	0.00	0	4,364	3.04	1,435
LDT1	23,776	26.12	910	9	21.78	0	0	0.00	0	202	3.04	66
LDT2	71,207	24.33	2,927	520	34.76	15	0	0.00	0	646	3.04	212
MDV	47,906	19.78	2,421	1,147	26.88	43	0	0.00	0	373	3.04	123
LHD1	5,176	10.44	496	3,704	21.76	170	0	0.00	0	0	3.04	0
LHD2	847	9.10	93	1,445	19.60	74	0	0.00	0	0	3.04	0
MHD	0	5.04	0	0	10.52	0	0	0.00	0	0	3.04	0
HHD	0	4.10	0	0	6.59	0	0	2.24	0	0	3.04	0
OBUS	0	4.99	0	0	8.78	0	0	0.00	0	0	3.04	0
UBUS	0	4.24	0	0	5.66	0	0	3.93	0	0	3.04	0
MCY	9,279	35.70	260	0	0.00	0	0	0.00	0	0	3.04	0
SBUS	0	9.19	0	0	7.63	0	0	0.00	0	0	3.04	0
MH	0	5.14	0	0	10.54	0	0	0.00	0	0	3.04	0
	363,903		**13,900**	**8,698**		**342**	**0**		**0**	**5,584**		**1,836**

Existing Land Use: Trucks

EXISTING LAND USE

Vehicle type	Fleet percent	VMT	
	Warehousing	Warehousing	Total
LDA	0.00%	0	0
LDT1	0.00%	0	0
LDT2	0.00%	0	0
MDV	0.00%	0	0
LHD1	0.00%	0	0
LHD2	0.00%	0	0
MHD	50.00%	160,647	160,647
HHD	50.00%	160,647	160,647
OBUS	0.00%	0	0
UBUS	0.00%	0	0
MCY	0.00%	0	0
SBUS	0.00%	0	0
MH	0.00%	0	0
	100.00%	321,294	321,294

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,294	321,294
Total	22.06	22.06	22.06	321,294	321,294

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent	
MHD	0.00%	100.00%	0.00%	0.00%	<--Assumes 100% diesel
HHD	0.00%	100.00%	0.00%	0.00%	<--Assumes 100% diesel

PROPOSED CONDITIONS

Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	0	30.28	0	0	47.29	0	0	0.00	0	0	3.04	0
LDT1	0	26.12	0	0	21.78	0	0	0.00	0	0	3.04	0
LDT2	0	24.33	0	0	34.76	0	0	0.00	0	0	3.04	0
MDV	0	19.78	0	0	26.88	0	0	0.00	0	0	3.04	0
LHD1	0	10.44	0	0	21.76	0	0	0.00	0	0	3.04	0
LHD2	0	9.10	0	0	19.60	0	0	0.00	0	0	3.04	0
MHD	0	5.04	0	160,647	10.52	15,269	0	0.00	0	0	3.04	0
HHD	0	4.10	0	160,647	6.59	24,368	0	2.24	0	0	3.04	0
OBUS	0	4.99	0	0	8.78	0	0	0.00	0	0	3.04	0
UBUS	0	4.24	0	0	5.66	0	0	3.93	0	0	3.04	0
MCY	0	35.70	0	0	0.00	0	0	0.00	0	0	3.04	0
SBUS	0	9.19	0	0	7.63	0	0	0.00	0	0	3.04	0
MH	0	5.14	0	0	10.54	0	0	0.00	0	0	3.04	0
	0		**0**	**321,294**		**39,637**	**0**		**0**	**0**		**0**

Proposed Project - Passenger Cars

PROPOSED CONDITIONS

Vehicle type	Fleet percent Warehousing	VMT Warehousing	Fleet percent Manufacturing	VMT Manufacturing	Total
LDA	56.04%	354,933	56.04%	123,499	478,432
LDT1	6.34%	40,169	6.34%	13,977	54,146
LDT2	19.14%	121,197	19.14%	42,171	163,368
MDV	13.07%	82,769	13.07%	28,799	111,568
LHD1	2.35%	14,871	2.35%	5,174	20,046
LHD2	0.61%	3,838	0.61%	1,335	5,173
MHD	0.00%	0	0.00%	0	0
HHD	0.00%	0	0.00%	0	0
OBUS	0.00%	0	0.00%	0	0
UBUS	0.00%	0	0.00%	0	0
MCY	2.45%	15,538	2.45%	5,407	20,945
SBUS	0.00%	0	0.00%	0	0
MH	0.00%	0	0.00%	0	0
	100.00%	633,315	100.00%	220,362	853,677

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate Weekday	Saturday	Sunday	Unmitigated Annual VMT	Mitigated Annual VMT
Manufacturing	49.76	49.76	49.76	220,362	220,362
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	147.77	147.77	147.77	633,315	633,315
Total	197.54	197.54	197.54	853,677	853,677

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.0000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.0033
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.0033
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.0033
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.0000

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent	
LDA	97.06%	0.88%	0.00%	2.06%	
LDT1	99.12%	0.04%	0.00%	0.84%	
LDT2	98.39%	0.72%	0.00%	0.89%	
MDV	96.93%	2.32%	0.00%	0.75%	
LHD1	58.29%	41.71%	0.00%	0.00%	
LHD2	36.96%	63.04%	0.00%	0.00%	
MHD	16.07%	83.93%	0.00%	0.00%	<< Equal to T6 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
HHD	0.08%	98.36%	1.56%	0.00%	<< Equal to T7 (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
OBUS	40.92%	59.08%	0.00%	0.00%	<< Motor coach, all other buses, and OBUS (https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf)
UBUS	6.98%	0.25%	92.54%	0.23%	
MCY	100.00%	0.00%	0.00%	0.00%	
SBUS	33.67%	66.33%	0.00%	0.00%	
MH	75.55%	24.45%	0.00%	0.00%	

PROPOSED CONDITIONS

Vehicle type	Gasoline VMT	mpg	Gallons	Diesel VMT	mpg	Gallons	CNG VMT	mpg	Gallons	Electricity VMT	m/kWh	kWh
LDA	464,353	30.28	15,333	4,228	47.29	89	0	0.00	0	9,851	3.07	3,213
LDT1	53,669	26.12	2,055	21	21.78	1	0	0.00	0	456	3.07	149
LDT2	160,735	24.33	6,608	1,174	34.76	34	0	0.00	0	1,458	3.07	476
MDV	108,138	19.78	5,466	2,589	26.88	96	0	0.00	0	841	3.07	274
LHD1	11,685	10.44	1,119	8,361	21.76	384	0	0.00	0	0	3.07	0
LHD2	1,912	9.10	210	3,261	19.60	166	0	0.00	0	0	3.07	0
MHD	0	5.04	0	0	10.52	0	0	0.00	0	0	3.07	0
HHD	0	4.10	0	0	6.59	0	0	2.24	0	0	3.07	0
OBUS	0	4.99	0	0	8.78	0	0	0.00	0	0	3.07	0
UBUS	0	4.24	0	0	5.66	0	0	3.93	0	0	3.07	0
MCY	20,945	35.70	587	0	0.00	0	0	0.00	0	0	3.07	0
SBUS	0	9.19	0	0	7.63	0	0	0.00	0	0	3.07	0
MH	0	5.14	0	0	10.54	0	0	0.00	0	0	3.07	0
	821,437		**31,377**	**19,634**		**771**	**0**		**0**	**12,606**		**4,112**

Proposed Project - Trucks

PROPOSED CONDITIONS

Vehicle type	Fleet percent	VMT	Fleet percent	VMT	
	Warehousing	Warehousing	Manufacturing	Manufacturing	Total
LDA	0.00%	0	0.00%	0	0
LDT1	0.00%	0	0.00%	0	0
LDT2	0.00%	0	0.00%	0	0
MDV	0.00%	0	0.00%	0	0
LHD1	0.00%	0	0.00%	0	0
LHD2	0.00%	0	0.00%	0	0
MHD	43.08%	204,426	43.08%	204,449	408,875
HHD	56.92%	270,135	56.92%	270,165	540,300
OBUS	0.00%	0	0.00%	0	0
UBUS	0.00%	0	0.00%	0	0
MCY	0.00%	0	0.00%	0	0
SBUS	0.00%	0	0.00%	0	0
MH	0.00%	0	0.00%	0	0
	100.00%	474,561	100.00%	474,614	949,175

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	32.59	32.59	32.59	474,614	474,614
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	32.59	32.59	32.59	474,561	474,561
Total	65.17	65.17	65.17	949,175	949,175

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent	
MHD	0.00%	100.00%	0.00%	0.00%	<---Assumes 100% diesel
HHD	0.00%	100.00%	0.00%	0.00%	<---Assumes 100% diesel

PROPOSED CONDITIONS

Vehicle type	Gasoline			Diesel			CNG			Electricity		
	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	mpg	Gallons	VMT	m/kWh	kWh
LDA	0	30.28	0	0	47.29	0	0	0.00	0	0	3.07	0
LDT1	0	26.12	0	0	21.78	0	0	0.00	0	0	3.07	0
LDT2	0	24.33	0	0	34.76	0	0	0.00	0	0	3.07	0
MDV	0	19.78	0	0	26.88	0	0	0.00	0	0	3.07	0
LHD1	0	10.44	0	0	21.76	0	0	0.00	0	0	3.07	0
LHD2	0	9.10	0	0	19.60	0	0	0.00	0	0	3.07	0
MHD	0	5.04	0	408,875	10.52	38,861	0	0.00	0	0	3.07	0
HHD	0	4.10	0	540,300	6.59	81,958	0	2.24	0	0	3.07	0
OBUS	0	4.99	0	0	8.78	0	0	0.00	0	0	3.07	0
UBUS	0	4.24	0	0	5.66	0	0	3.93	0	0	3.07	0
MCY	0	35.70	0	0	0.00	0	0	0.00	0	0	3.07	0
SBUS	0	9.19	0	0	7.63	0	0	0.00	0	0	3.07	0
MH	0	5.14	0	0	10.54	0	0	0.00	0	0	3.07	0
	0		**0**	**949,175**		**120,819**	**0**		**0**	**0**		**0**

EMFAC Fuel Usage: Year 2022

Vehicle type	GAS			DSL			NG			ELEC
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day
All other buses	0	0	0.00	144,213	14,122	10.21	0	0	0.00	0
LDA	149,966,457	4,951,891	30.28	1,365,564	28,876	47.29	0	0	0.00	3,181,478
LDT1	17,043,180	652,540	26.12	6,627	304	21.78	0	0	0.00	144,752
LDT2	51,802,173	2,129,498	24.33	378,461	10,888	34.76	0	0	0.00	469,870
LHD1	3,836,225	367,280	10.44	2,744,971	126,149	21.76	0	0	0.00	0
LHD2	625,803	68,770	9.10	1,067,421	54,454	19.60	0	0	0.00	0
MCY	1,237,635	34,667	35.70	0	0	0.00	0	0	0.00	0
MDV	32,233,548	1,629,223	19.78	771,652	28,703	26.88	0	0	0.00	250,682
MH	190,935	37,177	5.14	61,785	5,859	10.54	0	0	0.00	0
Motor coach	0	0	0.00	91,142	13,998	6.51	0	0	0.00	0
OBUS	163,041	32,643	4.99	0	0	0.00	0	0	0.00	0
PTO	0	0	0.00	76,505	15,508	4.93	0	0	0.00	0
SBUS	55,608	6,053	9.19	109,536	14,360	7.63	0	0	0.00	0
T6	793,122	157,239	5.04	4,140,797	393,561	10.52	0	0	0.00	0
T7	5,769	1,407	4.10	6,735,541	1,021,710	6.59	106,828	47,783	2.24	0
UBUS	32,989	7,783	4.24	1,181	209	5.66	437,121	111,088	3.93	1,070
Total	**257,986,485**	**10,076,171**	**25.60**	**17,695,397**	**1,728,701**	**10.24**	**543,949**	**158,871**	**3.42**	**4,047,852**

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Los Angeles (SC)	2022	All Other Buses	Aggregate	Aggregate	Diesel	2387.615771	144212.5891	20055.97247	14.12157342
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Gasoline	3949334.32	149966456.8	18636854.28	4951.890616
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Diesel	34750.74201	1365564.321	164528.3052	28.87579459
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Electricity	78084.60157	3181477.948	389918.6908	0
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Gasoline	458115.2498	17043179.81	2118381.376	652.5401757
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Diesel	270.6503295	6627.200698	961.4710483	0.304298206
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Electricity	3508.68045	144752.0157	17546.16027	0
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Gasoline	1372144.276	51802172.9	6443902.5	2129.497975
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Diesel	8920.377392	378460.5711	44003.20424	10.88805719
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Electricity	14383.25646	469869.8144	72773.64326	0
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	Gasoline	105423.6869	3836224.58	1570655.854	367.2799521
Los Angeles (SC)	2022	LHD1	Aggregate	Aggregate	Diesel	64097.22758	2744971.33	806262.4886	126.1492688
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	Gasoline	17796.61867	625803.0177	265143.1013	68.76969502
Los Angeles (SC)	2022	LHD2	Aggregate	Aggregate	Diesel	25927.3097	1067421.343	326132.9395	54.45422002
Los Angeles (SC)	2022	MCY	Aggregate	Aggregate	Gasoline	177319.3254	1237635.154	354638.6508	34.66720507
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	Gasoline	921693.6708	32233548.24	4274374.135	1629.222502
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	Diesel	19516.67089	771652.3864	96044.41776	28.70279505
Los Angeles (SC)	2022	MDV	Aggregate	Aggregate	Electricity	7423.218148	250681.8433	37959.59904	0
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	Gasoline	18777.11371	190934.9774	1878.462455	37.17660803
Los Angeles (SC)	2022	MH	Aggregate	Aggregate	Diesel	5865.304828	61785.30748	586.5304828	5.859423982
Los Angeles (SC)	2022	Motor Coach	Aggregate	Aggregate	Diesel	676.2916755	91141.88557	9873.858462	13.99760817
Los Angeles (SC)	2022	OBUS	Aggregate	Aggregate	Gasoline	3972.712037	163041.1007	79486.02243	32.64328018
Los Angeles (SC)	2022	PTO	Aggregate	Aggregate	Diesel	0	76505.4461	0	15.50775389
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	Gasoline	1378.869452	55608.41612	5515.47781	6.053496228
Los Angeles (SC)	2022	SBUS	Aggregate	Aggregate	Diesel	3460.157096	109535.682	39929.73315	14.35975618
Los Angeles (SC)	2022	T6 Ag	Aggregate	Aggregate	Diesel	12.10479957	101.9666453	53.26111809	0.012181572
Los Angeles (SC)	2022	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	272.1638062	53846.97659	3973.591571	4.680155196
Los Angeles (SC)	2022	T6 CAIRP small	Aggregate	Aggregate	Diesel	144.6349106	7530.75419	2111.669694	0.699944378
Los Angeles (SC)	2022	T6 instate construction heavy	Aggregate	Aggregate	Diesel	2518.967495	168570.4564	11388.15411	16.56194729
Los Angeles (SC)	2022	T6 instate construction small	Aggregate	Aggregate	Diesel	8157.753968	433957.0754	36880.88852	42.40587222
Los Angeles (SC)	2022	T6 instate heavy	Aggregate	Aggregate	Diesel	10296.35106	1423092.141	118818.4637	128.9338909
Los Angeles (SC)	2022	T6 instate small	Aggregate	Aggregate	Diesel	37908.6179	1932060.83	437460.1947	186.9232192
Los Angeles (SC)	2022	T6 OOS heavy	Aggregate	Aggregate	Diesel	156.4590604	31080.56962	2284.302283	2.699014263
Los Angeles (SC)	2022	T6 OOS small	Aggregate	Aggregate	Diesel	83.58460294	4317.240411	1220.335203	0.401773955
Los Angeles (SC)	2022	T6 Public	Aggregate	Aggregate	Diesel	4445.935083	69430.49194	13486.00307	8.507368053
Los Angeles (SC)	2022	T6 utility	Aggregate	Aggregate	Diesel	996.7203316	16808.24099	11462.28381	1.735997959
Los Angeles (SC)	2022	T6TS	Aggregate	Aggregate	Gasoline	14505.49561	793122.3284	290225.9562	157.2392835
Los Angeles (SC)	2022	T7 Ag	Aggregate	Aggregate	Diesel	5.193051548	102.8930892	22.84942681	0.01852168
Los Angeles (SC)	2022	T7 CAIRP	Aggregate	Aggregate	Diesel	6003.500987	1067306.387	87651.11441	155.0696328
Los Angeles (SC)	2022	T7 CAIRP construction	Aggregate	Aggregate	Diesel	671.4917023	121085.6232	3035.787878	16.55458348
Los Angeles (SC)	2022	T7 NNOOS	Aggregate	Aggregate	Diesel	6498.761345	1301079.701	94881.91563	179.099333
Los Angeles (SC)	2022	T7 NOOS	Aggregate	Aggregate	Diesel	2371.048773	419354.6563	34617.31208	62.47642547
Los Angeles (SC)	2022	T7 POLA	Aggregate	Aggregate	Diesel	8258.014728	1072153.038	62760.91194	188.7409496
Los Angeles (SC)	2022	T7 Public	Aggregate	Aggregate	Diesel	5475.906144	110937.1004	16610.24862	19.0808356
Los Angeles (SC)	2022	T7 Single	Aggregate	Aggregate	Diesel	5794.937297	385296.7187	66872.77297	58.88961274
Los Angeles (SC)	2022	T7 single construction	Aggregate	Aggregate	Diesel	4300.116371	300391.1598	19440.65893	44.46501106
Los Angeles (SC)	2022	T7 SWCV	Aggregate	Aggregate	Diesel	1379.990695	56384.18389	5381.963711	27.81339016
Los Angeles (SC)	2022	T7 SWCV	Aggregate	Aggregate	Natural Gas	2623.533087	106827.7218	10231.77904	47.782843
Los Angeles (SC)	2022	T7 tractor	Aggregate	Aggregate	Diesel	12166.67647	1645420.533	154516.7912	230.7310322
Los Angeles (SC)	2022	T7 tractor construction	Aggregate	Aggregate	Diesel	3592.159925	247796.2601	16240.01536	37.46414496
Los Angeles (SC)	2022	T7 utility	Aggregate	Aggregate	Diesel	405.4684121	8232.431424	4662.886739	1.306947156
Los Angeles (SC)	2022	T7IS	Aggregate	Aggregate	Gasoline	55.2683338	5768.621752	1105.808823	1.407168754
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Gasoline	460.6006493	32989.32038	1842.402597	7.783285084
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Diesel	10.1389	1181.230112	40.5556	0.208547568
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Electricity	12	1070.403311	48	0
Los Angeles (SC)	2022	UBUS	Aggregate	Aggregate	Natural Gas	4129.345993	437121.0718	16517.38397	111.0876976

CalEEMod Inputs - Construction

Name:
Project Number: IRW-03
Project Location:
County: Los Angeles County (SC)
Source Receptor Area (SRA): 9 - East San Gabriel Valley
Climate Zone: 9
Land Use Setting: Urban
Utility Company: SCE
Air Basin: South Coast Air Basin
Air District: South Coast Air Quality Management District (SCAQMD)

	Main Project Site	Off-Site Area	Total
Proiect Site Acreage	5.89	0.13	6.02
Disturbed Site Acreage	5.89	0.13	6.02

New Construction

	Land Use Area (SF)	Floor Area (SF)	Acres
Warehouse	103,670	103,670	2.38
Manufacturing	17,000	17,000	0.39
Office	9,160	4,830	0.11
TOTAL BUILDING		**125,500**	**2.88**
Landscaping	27,979	27,979	0.64
Parking Lot	123	20,193	0.46
Roadway Dedication	5,663	5,663	0.13
Other Asphalt Surfaces	82,896	82,896	1.90

Parking Space Type	Size (Square Feet/Stall)	Number of Stalls	Total Area (SqFt)
Standard	171	91	15,561
Compact	120	21	2,520
Parallel	192	11	2,112
Total	**n/a**	**123**	**20,193**

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Warehouse	112.830	1000 BSF	2.49	112,830
Industrial	General Light Industrial	17.000	1000 BSF	0.39	17,000
Parking Lot	Parking Lot	123	Stalls	0.46	20,193
Parking Lot	Other Non-Asphalt	27.979	1000 BSF	0.64	0
Parking Lot	Other Asphalt	2.03	Acre	2.03	88,559
				6.02	

Demolition

Component	Tons Demolished	Haul Truck Capacity (tons)	Haul Distance (miles)*	Total Trip Ends	Duration (days)	Trip Ends/ day
Building Demolition	323	20	7	34	31	1
Asphalt Demolition	1,130	20	28	114	8	14

Soil Haul

Construction Activities	Haul Volume (cy)	Haul Truck Capacity (CY)	Haul Distance (miles)	Total Trip Ends	Duration (days)	Trip Ends/ day
Rough Grading Import	14,933	10	25.00	2,987	22	136

Architectural Coating

Land Use	Land Use Square Feet	CalEEMod Factor[1]	Total Paintable Surface Area	Paintable Interior Area[2]	Paintable Exterior Area[1]
Warehouse	112,830	2.0	225,660	169,245	56,415
General Light Industrial	17,000	2.0	34,000	25,500	8,500
Total Non-Residential	**129,830**		**259,660**	**194,745**	**64,915**
			259,660	194,745	64,915
Parking Lot	108,752	6%	6,525	-	6,525
			6,525		6,525

[1] *The program assumes the total surface for painting equals 2 times the floor square footage for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*
[2] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

Construction Mitigation

South Coast AQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
Replace Ground Cover	PM2.5:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph

South Coast AQMD Rule 1186

	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumptions:

* based on info provided by applicant

CalEEMod Construction Schedule

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	Demolition	1/15/2022	2/28/2022	31
Asphalt Demolition	Demolition	2/1/2022	2/10/2022	8
Site Preparation	Site Preparation	3/1/2022	3/7/2022	5
Building Construction	Building Construction	3/2/2022	9/1/2022	132
Rough Grading	Grading	3/5/2022	4/5/2022	22
Untility Trenching	Trenching	4/1/2022	5/1/2022	21
Fine Grading	Grading	6/15/2022	6/30/2022	12
Architectural Coating	Architectural Coating	7/1/2022	7/31/2022	21
Finishing/Landscaping	Trenching	8/1/2022	9/15/2022	34

Adjusted Construction Schedule for CalEEMod

		Construction Schedule		
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	Demolition	2/1/2022	3/15/2022	31
Asphalt Demolition	Demolition	2/18/2022	3/1/2022	8
Site Preparation	Site Preparation	3/18/2022	3/24/2022	5
Building Construction	Building Construction	3/19/2022	9/20/2022	132
Rough Grading	Grading	3/22/2022	4/20/2022	22
Untility Trenching	Trenching	3/22/2022	4/19/2022	21
Fine Grading	Grading	6/5/2022	6/21/2022	12
Architectural Coating	Architectural Coating	6/22/2022	7/20/2022	21
Finishing/Landscaping	Trenching	7/21/2022	9/6/2022	34

Overlapping Construction Schedule

	Construction Schedule		
Construction Activities	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	2/1/2022	2/17/2022	13
Building Demolition & Asphalt Demolition	2/18/2022	3/1/2022	8
Building Demolition	3/2/2022	3/15/2022	10
Site Preparation	3/18/2022	3/18/2022	1
Site Preparation & Building Construction	3/19/2022	3/21/2022	1
Site Preparation, Building Construction, & Rough Grading	3/22/2022	3/24/2022	3
Building Construction & Rough Grading	3/25/2022	4/17/2022	16
Building Construction, Rough Grading, & Utility Trenching	4/18/2022	4/20/2022	3
Building Construction & Utility Trenching	4/21/2022	5/16/2022	18
Building Construction	5/17/2022	7/1/2022	34
Building Construction & Fine Grading	7/2/2022	7/19/2022	12
Building Construction & Architectural Coating	7/20/2022	8/17/2022	21
Building Construction & Finishing/Landscaping	8/18/2022	9/20/2022	24
Finishing/Landscaping	9/21/2022	10/4/2022	10

CalEEMod Construction Off-Road Equipment Inputs:

**Based on data verified by applicant, CalEEMod default used for construction equipment*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Construction Equipment Details						
Equipment	**model**	**# of Equipment**	**hr/day**	**hp**	**load factor***	**total trips**
Building Demolition						
Excavator	336	1	8	311	0.38	
Skidsteer Loader	262	1	8	74.3	0.37	
Worker Trips						5
Vendor Trips					0	
Hauling Trips						
Water Trucks						34
Asphalt Demolition						
Excavator	336	1	8	311	0.38	
Skidsteer Loader	262	1	8	74.3	0.37	
Worker Trips						5
Vendor Trips						
Hauling Trips						114
Water Trucks						2
Site Preparation						
Dozer Tractor	D4	1	8	130	0.43	
Worker Trips						3
Vendor Trips						2
Vendor Trips						*0*
Water Trucks						*2*
Hauling Trips						0
Building Construction						
Forklift	300	3	8	173	0.2	
Aerial Lift	Boomlift S45	3	8	74	0.31	
Worker Trips						100
Vendor Trips						39
Hauling Trips						0
Rough Grading						
Scraper	623	2	8	365	0.48	
Scraper	657	2	8	478	0.48	
Grader	140	1	8	179	0.41	
Tractor/Loader/Backhoe	Skip Loader Tractor 570	1	8	79	0.37	
Worker Trips						15
Vendor Trips						2
Vendor Trips						*0*
Water Trucks						*2*
Hauling Trips						2,987
Utilities Trenching						
Tractor/Loader/Backhoe	Loader Backhoe 310	2	8	70	0.37	
Worker Trips						5
Vendor Trips						0
Fine Grading						
Tractor/Loader/Backhoe	Skip Loader Tractor 570	1	8	79	0.37	
Roller	Vibratory Roller 24	1	8	36	0.38	
Worker Trips						5
Vendor Trips						2
Vendor Trips						*0*
Water Trucks						*2*
Hauling Trips						
Architectural Coating						
Aerial Lift	Boomlift S45	3	8	74	0.31	
Worker Trips						20
Vendor Trips						0
Finishing and Landscaping						
Tractor/Loader/Backhoe	Skip Loader Tractor 570	1	8	79	0.37	
Worker Trips						3
Vendor Trips						0
Hauling Trips						0

Construction Trips Worksheet

Phase Name	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Haul Truck Trip Ends	Start Date	End Date	Workdays
Building Demolition	5	2	2	34	2/1/2022	3/15/2022	31
Asphalt Demolition	5	2	15	114	2/18/2022	3/1/2022	8
Site Preparation	3	2	0	0	3/18/2022	3/24/2022	5
Building Construction	100	39	0	0	3/19/2022	9/20/2022	132
Rough Grading	15	2	136	2,987	3/22/2022	4/20/2022	22
Untility Trenching	5	0	0	0	4/18/2022	5/16/2022	21
Fine Grading	5	2	0	0	7/2/2022	7/19/2022	12
Architectural Coating	20	0	0	0	7/20/2022	8/17/2022	21
Finishing/Landscaping	3	0	0	0	8/18/2022	10/4/2022	34

Construction Scenarios	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Trip Ends Per Day	Start Date	End Date	Workdays
Building Demolition	5	2	2	9	2/1/2022	2/17/2022	13
Building Demolition & Asphalt Demolition	10	4	17	31	2/18/2022	3/1/2022	8
Building Demolition	5	2	2	9	3/2/2022	3/15/2022	10
Site Preparation	3	2	0	5	3/18/2022	3/18/2022	1
Site Preparation & Building Construction	103	41	0	144	3/19/2022	3/21/2022	1
Site Preparation, Building Construction, & Rough Grading	118	**43**	**136**	**297**	3/22/2022	3/24/2022	3
Building Construction & Rough Grading	115	41	**136**	292	3/25/2022	4/17/2022	16
Building Construction, Rough Grading, & Utility Trenching	**120**	41	**136**	**297**	4/18/2022	4/20/2022	3
Building Construction & Utility Trenching	105	39	0	144	4/21/2022	5/16/2022	18
Building Construction	100	39	0	139	5/17/2022	7/1/2022	34
Building Construction & Fine Grading	105	41	0	146	7/2/2022	7/19/2022	12
Building Construction & Architectural Coating	**120**	39	0	159	7/20/2022	8/17/2022	21
Building Construction & Finishing/Landscaping	103	39	0	142	8/18/2022	9/20/2022	24
Finishing/Landscaping	3	0	0	3	9/21/2022	10/4/2022	10
Maximum Daily Trips	**120**	**43**	**136**	**297**			

CalEEMod Inputs - Operation: Proposed Project

Name:
Project Number: IRW-03
Project Location:
County: Los Angeles County (SC)
Source Receptor Area (SRA): 9 - East San Gabriel Valley
Climate Zone: 9
Land Use Setting: Urban
Operational Year: 2022
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast Air Quality Management District (South Coast AQMD)

	Main Project Site	Off-Site Area	Total
Proiect Site Acreage	5.89	0.13	6.02
Disturbed Site Acreage	5.89	0.13	6.02

New Construction

Land Use	Total SQFT	Acres
Warehouse	103,670	2.38
Manufacturing	17,000	0.39
Office	9,160	0.11
TOTAL BUILDING	**129,830**	**2.88**
Landscaping	27,979	0.64
Parking Lot	20,193	0.46
Roadway	5,663	0.13
Other Asphalt Surfaces	82,896	1.90

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Warehouse	112.830	1000 BSF	2.49	112,830
Industrial	Manufacturing	17.000	1000 BSF	0.39	17,000
Parking Lot	Parking Lot	123	Stalls	0.46	20,193
Parking Lot	Other Non-Asphalt	27.979	1000 BSF	0.64	0
Parking Lot	Other Asphalt	2.03	Acre	2.03	88,559
				6.02	

Daily Trips Calculation

	Warehouse	Manufacturing	Total
Daily Trips:[1]	196	66	262
Passenger	*156*	*41*	*197*
2- & 3-Axle Trucks	*16*	*12*	*28*
4-Axle Trucks	*24*	*13*	*37*
Days Per Week	365	365	365
Weeks Per Year	1	1	1
Annual Trips	71,540	24,090	95,630
Passenger	*56,940*	*14,965*	*71,905*
2- & 3-Axle Trucks	*5,840*	*4,380*	*10,220*
4-Axle Trucks	*8,760*	*4,745*	*13,505*

Total Annual Trips	Average Daily Trips	Fleet Mix %
95,630	263	100%
71,905	*198*	75.19%
10,220	*28*	10.69%
13,505	*37*	14.12%

540200

Project Trips CalEEMod Inputs

Land Use	Passenger/Main Model Run: Trips Per Day	Passenger/Main Model Run: Trip Generation Rate	Truck Model Run: Trips Per Day[2]	Truck Model Run: Trip Generation Rate
Warehouse	148	1.3097	33	0.2888
Manufacturing	50	2.9272	33	1.9170
Total	***198***	***NA***	***65***	

[1] *Urban Crossroads. 2021, July 24. Azusa Canyon Road Warehouse Transportation Analysis.*
[2] *For purposes of this analysis, truck trips are proportioned equally between the land uses.*

Vehicle Miles Traveled

Passenger Vehicle Trips

Utilized default CalEEMod trip lengths and trip type assumptions.

Truck Trips

Truck Type	Daily Trips	Average Trip Length[1]	Daily VMT	Annual VMT[2]	Adjusted Average Trip Length[3]
2- & 3-Axle Trucks	**28**	*39.9*	1,120	408,898	*40.01*
4-Axle Trucks	**37**	39.9	1,480	540,330	*40.01*
	65			**949,228**	

[1] *Derived from the SCAG's Heavy-Duty Truck Regional Travel Demand model and represents the average class 8 truck trip distance within the SoCAB; South Coast Air Quality Management District. 2021, May. Final Staff Report: Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program and Rule 316 – Fees for Rule 2305*

[2] *Based on 365 days.*

[3] *Accounts for CalEEMod methodology which assumes 364 days per year.*

Water Demand*

	Gallons Per Day	Gallons Per Year
Indoor Water:	854	311,710
Outdoor Water:	565	206,225
Total	**1,419**	**517,935**

**See Table 22, Proposed and Exiting Wastewater Demand, of the MND.*

CalEEMod Inputs

Land Use	Indoor (gal/yr)	Outdoor (gal/yr)	Total Water Demand (gal/yr)
Warehouse	155,855	103,113	258,968
Manufacturing	155,855	103,113	258,968
Total:	**311,710**	**206,225**	**517,935**

*Assumes 100% aerobic treatment.

Solid Waste

Land Use	Land Use Amount	Generation Rate (pound/SF/day)*	Daily Solid Waste (lbs/day)	Annual Solid Waste (tons/yr)
Warehouse	103,670	0.0142	1,472.11	268.66
Manufacturing	17,000	0.0142	241.40	44.06
Office	9,160	0.006	54.96	10.03
		Total	**1,768.47**	**322.75**

**See Table 24, Existing and Proposed Solid Waste Generation, of the MND.*

CalEEMod Inputs

Land Use	Amount (tons/yr)
Warehouse	278.69
Manufacturing	44.06

Architectural Coating

Land Use	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable	Paintable Interior Area[1]	Paintable Exterior Area[1]
Warehouse	112,830	2.0	225,660	169,245	56,415
Manufacturing	17,000	2.0	34,000	25,500	8,500
Total Non-Residential	**129,830**		**259,660**	**194,745**	**64,915**
			259,660	194,745	64,915
Parking Lot and Asphalt Surfaces	108,752	6%	6,525	-	6,525
			6,525		6,525

[1] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

[2] *The program assumes the total surface for painting equals 2 times the floor square footage for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO_2e Intensity Factor[1]	512	pounds per megawatt hour
CO2:[1,2]	509.983	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] *Based on CO_2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf*

[2] *Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.*

[3] *CalEEMod default values.*

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

	Global Warming Potentials (GWP)
CO_2	1
CH_4	25
N_2O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Changes to the CalEEMod Defaults - Fleet Mix 2022 (Passenger Cars)

Passenger Trips: 198

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	98%						2%	1%						100%
Proportion	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.654637	1.000000	0.057499	0.037742	0.024535	0.042329	0.207793	
Assumed Mix	75.19%						10.69%	14.12%						100.00%
adjusted with Assumed	0.421397	0.047691	0.143892	0.098268	0.017656	0.004556	0	0	0	0	0.018448	0	0	76%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	42%	5%	14%	10%	2%	0%	0%	0%	1%	0%	2%	0%	0%	76%
Modified	**0.555894**	**0.062912**	**0.189818**	**0.129632**	**0.023291**	**0.006011**	**0**	**0**	**0**	**0**	**0.024336**	**0**	**0**	**99.2%**
Final Check Trips	110	12	37	26	5	1	0	0	0	0	5	0	0	196
	99%					0%		0%						

Changes to the CalEEMod Defaults - Fleet Mix 2022 (Trucks)

Truck Trips: 65

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	98%						2%	1%						100%
Proportion	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.654637	1.000000	0.057499	0.037742	0.024535	0.042329	0.207793	
Assumed Mix	75.19%						10.69%	14.12%						100.00%
adjusted with Assumed	0	0	0	0	0	0.000000	0.069961	0.141221	0.006145	0.004033	0	0.004524	0.022207	25%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%	7%	14%	1%	0%	0%	0%	2%	25%
Modified	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.281997**	**0.569231**	**0.024769**	**0.016258**	**0.000000**	**0.018234**	**0.089511**	**100.0%**
Trips Check	0	0	0	0	0	0	18	37	2	1	0	1	6	65
Assumed MDV/HDT Mix	0%						43.08%	56.92%						
MDT truck adjustment (no buses or MH)							0.281997		0	0		0	0	28%
Adjusted MHD Fleet Mix							1.000000		0.000000	0.000000		0.000000	0.000000	100%
Assumed Truck Mix	**0**	**0**	**0**	**0**	**0**	**0**	**0.430769**	**0.569231**	**0**	**0**	**0**	**0**	**0**	
Trips - Final Check				0	0	0	28	37	0	0	0	0	0	65

CalEEMod Inputs - Existing Operations

Name:
Project Number: IRW-03
Project Location:
County: Los Angeles County (SC)
Source Receptor Area (SRA): 9 - East San Gabriel Valley
Climate Zone: 9
Land Use Setting: Urban
Operational Year: 2022
Utility Company: SCE
Air Basin: South Coast Air Basin
Air District: South Coast Air Quality Management District (South Coast AQMD)

	Project Site
Proiect Site Acreage	5.89

New Construction

Land Use	Total SQFT	Acres
Warehouse	62,713	1.44
TOTAL BUILDING	**62,713**	**1.44**
Unpaved/Landscaping	34,412	0.79
Parking Lot	30,415	0.70
Other Asphalt Surfaces	129,028	2.96

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Industrial	Warehouse	62.713	1000 BSF	1.44	62,713
Parking Lot	Parking Lot	116	Stalls	0.70	30,415
Parking Lot	Other Non-Asphalt	34.412	1000 BSF	0.79	0
Parking Lot	Other Asphalt	2.96	Acre	2.96	129,028
				5.89	

Daily Trips Calculation

	Total
Daily Trips:[1]	110
Passenger	*88*
2- & 3-Axle Trucks	*11*
4-Axle Trucks	*11*
Days Per Week	365
Weeks Per Year	1
Annual Trips	40,150
Passenger	*32,120*
2- & 3-Axle Trucks	*4,015*
4-Axle Trucks	*4,015*

Total Annual Trips	Average Daily Trips	Fleet Mix %
40,150	110	100%
32,120	*88*	80.00%
4,015	*11*	10.00%
4,015	*11*	10.00%

160600

Project Trips CalEEMod Inputs

Land Use	Passenger/Main Model Run		Truck Model Run	
	Trips Per Day	Trip Generation Rate	Trips Per Day	Trip Generation Rate
Warehouse	88	1.4071	22	0.3518

[1] *Urban Crossroads. 2021, July 24. Azusa Canyon Road Warehouse Transportation Analysis.*

Vehicle Miles Traveled

Passenger Vehicle Trips

Utilized default CalEEMod trip lengths and trip type assumptions.

Truck Trips

Truck Type	Daily Trips	Average Trip Length[1]	Daily VMT	Annual VMT[2]	Adjusted Average Trip Length[3]
2- & 3-Axle Trucks	**11**	*39.9*	440	160,639	*40.010*
4-Axle Trucks	**11**	39.9	440	160,639	*40.010*
	22			**321,277**	

[1] *Derived from the SCAG's Heavy-Duty Truck Regional Travel Demand model and represents the average class 8 truck trip distance within the SoCAB; South Coast Air Quality Management District. 2021, May. Final Staff Report: Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program and Rule 316 – Fees for Rule 2305*

[2] *Based on 365 days.*

[3] *Accounts for CalEEMod methodology which assumes 364 days per year.*

Water Demand

	Gallons Per Day	Gallons Per Year
Indoor Water:	873	318,645
Outdoor Water:	20	7,300
Total	**893**	**325,945**

CalEEMod Inputs

Land Use	Indoor (gal/yr)	Outdoor (gal/yr)	Total Water Demand (gal/yr)
Warehouse	318,645	7,300	325,945

*Assumes 100% aerobic treatment.

Solid Waste

Land Use	Land Use Amount	Generation Rate (pound/SF/day)	Daily Solid Waste (lbs/day)	Annual Solid Waste (tons/yr)
Warehouse	62,713	0.0142	890.52	162.52

CalEEMod Inputs

Land Use	Amount (tons/yr)
Warehouse	162.52

Architectural Coating

see Construction Assumptions

Land Use	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface	Paintable Interior Area[1]	Paintable Exterior Area[1]
Warehouse	62,713	2.0	125,426	94,070	31,357
Total Non-Residential	**62,713**		**125,426**	**94,070**	**31,357**
			125,426	94,070	31,357
Parking Lot	30,415	6%	1,825	-	1,825
			1,825		1,825

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.
[2] The program assumes the total surface for painting equals 2 times the floor square footage for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Rule 1113

Land Use	Land Use Square Feet	CalEEMod Factor[2]	Total Paintable Surface	Paintable Interior Area[1]	Paintable Exterior Area[1]
Warehouse	62,713	2.0	125,426	94,070	31,357
Total Non-Residential	**62,713**		**125,426**	**94,070**	**31,357**
			125,426	94,070	31,357
Parking Lot and Asphalt Surfaces	30,415	6%	1,825	-	1,825
			1,825		1,825

[1]CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.
[2] The program assumes the total surface for painting equals 2 times the floor square footage for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Energy

Uitlizes CalEEMod default historical energy rates, which are based on the 2005 Building Energy Efficiency Standards.

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO_2e Intensity Factor[1]	512	pounds per megawatt hour
CO2:[1,2]	509.983	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO_2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-
[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.
[3] CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

	Global Warming Potentials (GWP)
CO_2	1
CH_4	25
N_2O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Changes to the CalEEMod Defaults - Fleet Mix 2022 (Passenger Cars): Existing Land Use

Passenger Trips: 88

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	98%						2%	1%						100%
Proportion	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.654637	1.000000	0.057499	0.037742	0.024535	0.042329	0.207793	
Assumed Mix	80.00%						10.00%	10.00%						100.00%
adjusted with Assumed	0.448350	0.050741	0.153096	0.104553	0.018785	0.004848	0	0	0	0	0.019628	0	0	81%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45%	5%	15%	10%	2%	0%	0%	0%	1%	0%	2%	0%	0%	81%
Modified	**0.556438**	**0.062974**	**0.190004**	**0.129758**	**0.023314**	**0.006016**	**0**	**0**	**0**	**0**	**0.024360**	**0**	**0**	**99.3%**
Final Check Trips	49	6	17	11	2	1	0	0	0	0	2	0	0	88
	99%					0%		0%						

Changes to the CalEEMod Defaults - Fleet Mix 2022 (Trucks): Existing Land Use

Truck Trips: 22

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	98%						2%	1%						100%
Proportion	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.654637	1.000000	0.057499	0.037742	0.024535	0.042329	0.207793	
Assumed Mix	80.00%						10.00%	10.00%						100.00%
adjusted with Assumed	0	0	0	0	0	0.000000	0.065464	0.100000	0.005750	0.003774	0	0.004233	0.020779	20%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%	7%	10%	1%	0%	0%	0%	2%	20%
Modified	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.327318**	**0.500000**	**0.028750**	**0.018871**	**0.000000**	**0.021165**	**0.103897**	**100.0%**
Trips Check	0	0	0	0	0	0	7	11	1	0	0	0	2	22
Assumed MDV/HDT Mix	0%						50.00%	50.00%						
MDT truck adjustment (no buses or MH)							0.327318		0	0		0	0	33%
Adjusted MHD Fleet Mix							1.000000		0.000000	0.000000		0.000000	0.000000	100%
Assumed Truck Mix	**0**	**0**	**0**	**0**	**0**	**0**	**0.500000**	**0.500000**	**0**	**0**	**0**	**0**	**0**	
Trips - Final Check				0	0	0	11	11	0	0	0	0	0	22

Changes to the CalEEMod Defaults - Fleet Mix 2021 (Passenger Cars): Existing Land Use

Passenger Trips: 88

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	98%						2%	1%						100%
Proportion	0.562615	0.062423	0.190727	0.131078	0.023298	0.005874	0.655279	1.000000	0.057908	0.037798	0.023985	0.041553	0.207463	
Assumed Mix	80.00%						10.00%	10.00%						100.00%
adjusted with Assumed	0.450092	0.049939	0.152582	0.104862	0.018638	0.004699	0	0	0	0	0.019188	0	0	80%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45%	5%	15%	10%	2%	0%	0%	0%	0%	0%	2%	0%	0%	80%
Modified	**0.562615**	**0.062423**	**0.190727**	**0.131078**	**0.023298**	**0.005874**	**0**	**0**	**0**	**0**	**0.023985**	**0**	**0**	**100.0%**
Final Check Trips	50	6	17	12	2	1	0	0	0	0	2	0	0	88
	100%					0%		0%						

Changes to the CalEEMod Defaults - Fleet Mix 2021 (Trucks): Existing Land Use

Truck Trips: 22

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	91%						2%	6%						100%
Proportion	0.605613	0.039864	0.197398	0.127377	0.017699	0.005585	0.795824	1.000000	0.059278	0.068364	0.006463	0.035296	0.041237	
Assumed Mix	80.00%						10.00%	10.00%						100.00%
adjusted with Assumed	0	0	0	0	0	0.000000	0.079582	0.100000	0.005928	0.006836	0	0.003530	0.004124	20%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%	8%	10%	1%	1%	0%	0%	0%	20%
Modified	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.000000**	**0.397912**	**0.500000**	**0.029639**	**0.034182**	**0.000000**	**0.017648**	**0.020619**	**100.0%**
Trips Check	0	0	0	0	0	0	9	11	1	1	0	0	0	22
Assumed MDV/HDT Mix	0%						50.00%	50.00%						
MDT truck adjustment (no buses or MH)							0.397912		0	0		0	0	40%
Adjusted MHD Fleet Mix							1.000000		0.000000	0.000000		0.000000	0.000000	100%
Assumed Truck Mix	**0**	**0**	**0**	**0**	**0**	**0**	**0.500000**	**0.500000**	**0**	**0**	**0**	**0**	**0**	
Trips - Final Check				0	0	0	11	11	0	0	0	0	0	22

Construction Localized Significance Thresholds: Building Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.5	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Demolition & Asphalt Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.50	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**
Distance (meters)	25
NOx	**89**
CO	**623**
PM10	**61.73**
PM2.5	**17.79**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Graders	0.5	0.0625			0
Dozers	0.5	0.0625	8	1	0.5
Scrapers	1	0.125			0
				Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation & Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.50	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**
Distance (meters)	25
NOx	**89**
CO	**623**
PM10	**61.73**
PM2.5	**17.79**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Graders	0.5	0.0625			0
Dozers	0.5	0.0625	8	1	0.5
Scrapers	1	0.125			0
				Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation, Building Construction, & Rough Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**203**	Graders	0.5	0.0625	8	1	0.5
CO	**1,733**	Dozers	0.5	0.0625	8	1	0.5
PM10	**91.41**	Scrapers	1	0.125	8	4	4
PM2.5	**29.18**					**Acres**	5.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction & Rough Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**203**	Graders	0.5	0.0625	8	1	0.5
CO	**1,733**	Dozers	0.5	0.0625			0
PM10	**91.41**	Scrapers	1	0.125	8	4	4
PM2.5	**29.18**					**Acres**	5.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction, Rough Grading, & Utility Trenching

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	5.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**
Distance (meters)	25
NOx	**203**
CO	**1,733**
PM10	**91.41**
PM2.5	**29.18**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625	8	3	1.5
Graders	0.5	0.0625	8	1	0.5
Dozers	0.5	0.0625			0.0
Scrapers	1	0.125	8	4	4.0
				Acres	6.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	203	227	286	368	584
	5	203	227	286	368	584
		203	227	286	368	584
CO	5	1733	2299	3680	7600	25558
	5	1733	2299	3680	7600	25558
		1733	2299	3680	7600	25558
PM10	5	14	43	63	105	229
	5	14	43	63	105	229
		14	43	63	105	229
PM2.5	5	8	11	17	35	116
	5	8	11	17	35	116
		8	11	17	35	116

East San Gabriel Valley

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	203	227	286	368	584
CO	1733	2299	3680	7600	25558
PM10	14	43	63	105	229
PM2.5	8	11	17	35	116

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	5	9	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction & Utility Trenching

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	1.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	2	1
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction & Fine Grading

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.50	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction & Architectural Coating

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	0.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction & Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.50	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**89**	Graders	0.5	0.0625			0
CO	**623**	Dozers	0.5	0.0625			0
PM10	**61.73**	Scrapers	1	0.125			0
PM2.5	**17.79**					**Acres**	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
9	0.00	25	82	168	550	6.02

Source Receptor	**East San Gabriel Valley**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	**89**	Tractors	0.5	0.0625			0
CO	**623**	Graders	0.5	0.0625			0
PM10	**61.73**	Dozers	0.5	0.0625			0
PM2.5	**17.79**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	89	112	159	251	489
	1	89	112	159	251	489
		89	112	159	251	489
CO	1	623	945	1914	4803	20721
	1	623	945	1914	4803	20721
		623	945	1914	4803	20721
PM10	1	5	14	34	75	199
	1	5	14	34	75	199
		5	14	34	75	199
PM2.5	1	3	5	9	22	94
	1	3	5	9	22	94
		3	5	9	22	94

East San Gabriel Valley

0.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	89	112	159	251	489
CO	623	945	1914	4803	20721
PM10	5	14	34	75	199
PM2.5	3	5	9	22	94

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
9	1	9	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
General Light Industry	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. Please see assumptions in the AQ/GHG appendix.

Construction Phase - Based on information provided. Please see the assumptions file in the AQ/GHG appendix for further details.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Grading -

Demolition -

Trips and VMT - Based on information provided. Please see the assumptions in the AQ/GHG appendix for further details.

Construction Off-road Equipment Mitigation - Based on South Coast Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	PhaseEndDate	10/18/2022	8/17/2022
tblConstructionPhase	PhaseEndDate	8/23/2022	9/20/2022
tblConstructionPhase	PhaseEndDate	8/24/2021	3/15/2022
tblConstructionPhase	PhaseEndDate	10/5/2021	4/20/2022
tblConstructionPhase	PhaseEndDate	9/7/2021	3/24/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	7/20/2022
tblConstructionPhase	PhaseStartDate	10/6/2021	3/19/2022
tblConstructionPhase	PhaseStartDate	7/28/2021	2/1/2022
tblConstructionPhase	PhaseStartDate	9/8/2021	3/22/2022
tblConstructionPhase	PhaseStartDate	8/25/2021	3/18/2022
tblGrading	MaterialImported	0.00	14,933.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00
tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	89.00	173.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	212.00	130.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	HorsePower	367.00	478.00
tblOffRoadEquipment	HorsePower	97.00	70.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	32.00	34.00
tblTripsAndVMT	HaulingTripNumber	1,867.00	2,987.00
tblTripsAndVMT	HaulingTripNumber	112.00	114.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

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					
2022	0.7618	1.6175	1.6088	4.7400e-003	0.1762	0.0502	0.2264	0.0408	0.0464	0.0872	0.0000	437.7325	437.7325	0.0747	0.0281	447.9614
Maximum	**0.7618**	**1.6175**	**1.6088**	**4.7400e-003**	**0.1762**	**0.0502**	**0.2264**	**0.0408**	**0.0464**	**0.0872**	**0.0000**	**437.7325**	**437.7325**	**0.0747**	**0.0281**	**447.9614**

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					
2022	0.7618	1.6175	1.6088	4.7400e-003	0.1399	0.0502	0.1901	0.0352	0.0464	0.0815	0.0000	437.7322	437.7322	0.0747	0.0281	447.9612
Maximum	**0.7618**	**1.6175**	**1.6088**	**4.7400e-003**	**0.1399**	**0.0502**	**0.1901**	**0.0352**	**0.0464**	**0.0815**	**0.0000**	**437.7322**	**437.7322**	**0.0747**	**0.0281**	**447.9612**

	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**	**20.62**	**0.00**	**16.05**	**13.82**	**0.00**	**6.47**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	1-28-2022	4-27-2022	1.1160	1.1160
4	4-28-2022	7-27-2022	0.5311	0.5311
5	7-28-2022	9-30-2022	0.6843	0.6843
		Highest	1.1160	1.1160

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	2/1/2022	3/15/2022	5	31	
2	Asphalt Demolition	Demolition	2/18/2022	3/1/2022	5	8	
3	Site Preparation	Site Preparation	3/18/2022	3/24/2022	5	5	
4	Building Construction	Building Construction	3/19/2022	9/20/2022	5	132	
5	Rough Grading	Grading	3/22/2022	4/20/2022	5	22	
6	Utility Trenching	Trenching	4/18/2022	5/16/2022	5	21	
7	Fine Grading	Grading	7/2/2022	7/19/2022	5	12	
8	Architectural Coating	Architectural Coating	7/20/2022	8/17/2022	5	21	
9	Finishing/Landscaping	Trenching	8/18/2022	10/4/2022	5	34	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 55

Acres of Paving: 3.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 194,745; Non-Residential Outdoor: 64,915; Striped Parking Area: 6,525 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	7.00	231	0.29
Building Demolition	Excavators	1	8.00	311	0.38
Rough Grading	Excavators	0	8.00	158	0.38
Building Construction	Forklifts	3	8.00	173	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Rough Grading	Graders	1	8.00	179	0.41
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	1	8.00	311	0.38

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fine Grading	Excavators	0	8.00	158	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Graders	0	8.00	187	0.41
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Building Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Asphalt Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Site Preparation	Crawler Tractors	1	8.00	130	0.43
Building Construction	Aerial Lifts	3	8.00	74	0.31
Rough Grading	Scrapers	2	8.00	365	0.48
Rough Grading	Scrapers	2	8.00	478	0.48
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	70	0.37
Fine Grading	Rollers	1	8.00	36	0.38
Architectural Coating	Aerial Lifts	3	8.00	74	0.31
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	79	0.37

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	2	5.00	2.00	34.00	14.70	6.90	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	2,987.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	100.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	2	5.00	2.00	114.00	14.70	6.90	28.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2022

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					3.4600e-003	0.0000	3.4600e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3600e-003	0.0499	0.0587	1.9000e-004		1.7300e-003	1.7300e-003		1.6000e-003	1.6000e-003	0.0000	16.9615	16.9615	5.4900e-003	0.0000	17.0986
Total	**5.3600e-003**	**0.0499**	**0.0587**	**1.9000e-004**	**3.4600e-003**	**1.7300e-003**	**5.1900e-003**	**5.2000e-004**	**1.6000e-003**	**2.1200e-003**	**0.0000**	**16.9615**	**16.9615**	**5.4900e-003**	**0.0000**	**17.0986**

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

Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2700e-003	3.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3970	0.3970	2.0000e-005	6.0000e-005	0.4163
Vendor	6.0000e-005	1.5900e-003	5.3000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5920	0.5920	2.0000e-005	9.0000e-005	0.6179
Worker	2.7000e-004	2.2000e-004	2.8700e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.6985	0.6985	2.0000e-005	2.0000e-005	0.7047
Total	**3.7000e-004**	**3.0800e-003**	**3.7900e-003**	**2.0000e-005**	**1.1500e-003**	**3.0000e-005**	**1.1700e-003**	**3.2000e-004**	**3.0000e-005**	**3.4000e-004**	**0.0000**	**1.6874**	**1.6874**	**6.0000e-005**	**1.7000e-004**	**1.7388**

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					1.4800e-003	0.0000	1.4800e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3600e-003	0.0499	0.0587	1.9000e-004		1.7300e-003	1.7300e-003		1.6000e-003	1.6000e-003	0.0000	16.9615	16.9615	5.4900e-003	0.0000	17.0986
Total	**5.3600e-003**	**0.0499**	**0.0587**	**1.9000e-004**	**1.4800e-003**	**1.7300e-003**	**3.2100e-003**	**2.2000e-004**	**1.6000e-003**	**1.8200e-003**	**0.0000**	**16.9615**	**16.9615**	**5.4900e-003**	**0.0000**	**17.0986**

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	4.0000e-005	1.2700e-003	3.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3970	0.3970	2.0000e-005	6.0000e-005	0.4163
Vendor	6.0000e-005	1.5900e-003	5.3000e-004	1.0000e-005	1.8000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5920	0.5920	2.0000e-005	9.0000e-005	0.6179
Worker	2.7000e-004	2.2000e-004	2.8700e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6985	0.6985	2.0000e-005	2.0000e-005	0.7047
Total	**3.7000e-004**	**3.0800e-003**	**3.7900e-003**	**2.0000e-005**	**1.0600e-003**	**3.0000e-005**	**1.0900e-003**	**2.9000e-004**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**1.6874**	**1.6874**	**6.0000e-005**	**1.7000e-004**	**1.7388**

3.3 Asphalt Demolition - 2022

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0121	0.0000	0.0121	1.8300e-003	0.0000	1.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3800e-003	0.0129	0.0151	5.0000e-005		4.5000e-004	4.5000e-004		4.1000e-004	4.1000e-004	0.0000	4.3772	4.3772	1.4200e-003	0.0000	4.4126
Total	**1.3800e-003**	**0.0129**	**0.0151**	**5.0000e-005**	**0.0121**	**4.5000e-004**	**0.0125**	**1.8300e-003**	**4.1000e-004**	**2.2400e-003**	**0.0000**	**4.3772**	**4.3772**	**1.4200e-003**	**0.0000**	**4.4126**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.4000e-004	0.0137	2.8300e-003	5.0000e-005	1.3700e-003	1.0000e-004	1.4700e-003	3.8000e-004	1.0000e-004	4.7000e-004	0.0000	4.8681	4.8681	2.6000e-004	7.7000e-004	5.1048
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1528	0.1528	1.0000e-005	2.0000e-005	0.1595
Worker	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1803	0.1803	1.0000e-005	0.0000	0.1819
Total	**4.3000e-004**	**0.0141**	**3.7100e-003**	**5.0000e-005**	**1.6400e-003**	**1.0000e-004**	**1.7400e-003**	**4.5000e-004**	**1.0000e-004**	**5.5000e-004**	**0.0000**	**5.2011**	**5.2011**	**2.8000e-004**	**7.9000e-004**	**5.4461**

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					5.1700e-003	0.0000	5.1700e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3800e-003	0.0129	0.0151	5.0000e-005		4.5000e-004	4.5000e-004		4.1000e-004	4.1000e-004	0.0000	4.3772	4.3772	1.4200e-003	0.0000	4.4126
Total	**1.3800e-003**	**0.0129**	**0.0151**	**5.0000e-005**	**5.1700e-003**	**4.5000e-004**	**5.6200e-003**	**7.8000e-004**	**4.1000e-004**	**1.1900e-003**	**0.0000**	**4.3772**	**4.3772**	**1.4200e-003**	**0.0000**	**4.4126**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.4000e-004	0.0137	2.8300e-003	5.0000e-005	1.2800e-003	1.0000e-004	1.3800e-003	3.5000e-004	1.0000e-004	4.5000e-004	0.0000	4.8681	4.8681	2.6000e-004	7.7000e-004	5.1048
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1528	0.1528	1.0000e-005	2.0000e-005	0.1595
Worker	7.0000e-005	6.0000e-005	7.4000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1803	0.1803	1.0000e-005	0.0000	0.1819
Total	**4.3000e-004**	**0.0141**	**3.7100e-003**	**5.0000e-005**	**1.5300e-003**	**1.0000e-004**	**1.6300e-003**	**4.1000e-004**	**1.0000e-004**	**5.3000e-004**	**0.0000**	**5.2011**	**5.2011**	**2.8000e-004**	**7.9000e-004**	**5.4461**

3.4 Site Preparation - 2022

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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	9.4100e-003	8.0200e-003	1.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.0515	1.0515	3.4000e-004	0.0000	1.0600
Total	**9.6000e-004**	**9.4100e-003**	**8.0200e-003**	**1.0000e-005**	**1.3300e-003**	**5.3000e-004**	**1.8600e-003**	**1.4000e-004**	**4.8000e-004**	**6.2000e-004**	**0.0000**	**1.0515**	**1.0515**	**3.4000e-004**	**0.0000**	**1.0600**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.0000e-005	2.6000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0955	0.0955	0.0000	1.0000e-005	0.0997
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0682
Total	**4.0000e-005**	**2.8000e-004**	**3.7000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1631**	**0.1631**	**0.0000**	**1.0000e-005**	**0.1679**

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					5.7000e-004	0.0000	5.7000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	9.4100e-003	8.0200e-003	1.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.0515	1.0515	3.4000e-004	0.0000	1.0600
Total	**9.6000e-004**	**9.4100e-003**	**8.0200e-003**	**1.0000e-005**	**5.7000e-004**	**5.3000e-004**	**1.1000e-003**	**6.0000e-005**	**4.8000e-004**	**5.4000e-004**	**0.0000**	**1.0515**	**1.0515**	**3.4000e-004**	**0.0000**	**1.0600**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.0000e-005	2.6000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0955	0.0955	0.0000	1.0000e-005	0.0997
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0676	0.0676	0.0000	0.0000	0.0682
Total	**4.0000e-005**	**2.8000e-004**	**3.7000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1631**	**0.1631**	**0.0000**	**1.0000e-005**	**0.1679**

3.5 Building Construction - 2022

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	0.0413	0.4299	0.6408	9.8000e-004		0.0184	0.0184		0.0169	0.0169	0.0000	86.0593	86.0593	0.0278	0.0000	86.7551
Total	**0.0413**	**0.4299**	**0.6408**	**9.8000e-004**		**0.0184**	**0.0184**		**0.0169**	**0.0169**	**0.0000**	**86.0593**	**86.0593**	**0.0278**	**0.0000**	**86.7551**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0200e-003	0.1324	0.0439	5.0000e-004	0.0162	1.2000e-003	0.0174	4.6800e-003	1.1500e-003	5.8300e-003	0.0000	49.1526	49.1526	1.6400e-003	7.0900e-003	51.3065
Worker	0.0226	0.0188	0.2447	6.5000e-004	0.0723	4.7000e-004	0.0728	0.0192	4.3000e-004	0.0196	0.0000	59.4819	59.4819	1.7100e-003	1.6300e-003	60.0090
Total	**0.0276**	**0.1512**	**0.2886**	**1.1500e-003**	**0.0885**	**1.6700e-003**	**0.0902**	**0.0239**	**1.5800e-003**	**0.0255**	**0.0000**	**108.6345**	**108.6345**	**3.3500e-003**	**8.7200e-003**	**111.3155**

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	0.0413	0.4299	0.6408	9.8000e-004		0.0184	0.0184		0.0169	0.0169	0.0000	86.0592	86.0592	0.0278	0.0000	86.7550
Total	**0.0413**	**0.4299**	**0.6408**	**9.8000e-004**		**0.0184**	**0.0184**		**0.0169**	**0.0169**	**0.0000**	**86.0592**	**86.0592**	**0.0278**	**0.0000**	**86.7550**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0200e-003	0.1324	0.0439	5.0000e-004	0.0152	1.2000e-003	0.0164	4.4300e-003	1.1500e-003	5.5800e-003	0.0000	49.1526	49.1526	1.6400e-003	7.0900e-003	51.3065
Worker	0.0226	0.0188	0.2447	6.5000e-004	0.0667	4.7000e-004	0.0672	0.0178	4.3000e-004	0.0183	0.0000	59.4819	59.4819	1.7100e-003	1.6300e-003	60.0090
Total	**0.0276**	**0.1512**	**0.2886**	**1.1500e-003**	**0.0819**	**1.6700e-003**	**0.0835**	**0.0223**	**1.5800e-003**	**0.0238**	**0.0000**	**108.6345**	**108.6345**	**3.3500e-003**	**8.7200e-003**	**111.3155**

3.6 Rough Grading - 2022

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					0.0300	0.0000	0.0300	3.2800e-003	0.0000	3.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0472	0.5223	0.3604	8.6000e-004		0.0202	0.0202		0.0186	0.0186	0.0000	75.9776	75.9776	0.0246	0.0000	76.5919
Total	**0.0472**	**0.5223**	**0.3604**	**8.6000e-004**	**0.0300**	**0.0202**	**0.0502**	**3.2800e-003**	**0.0186**	**0.0219**	**0.0000**	**75.9776**	**75.9776**	**0.0246**	**0.0000**	**76.5919**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.2200e-003	0.3230	0.0684	1.1500e-003	0.0321	2.3300e-003	0.0344	8.8200e-003	2.2300e-003	0.0110	0.0000	114.3138	114.3138	6.0900e-003	0.0181	119.8715
Vendor	4.0000e-005	1.1300e-003	3.8000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4201	0.4201	1.0000e-005	6.0000e-005	0.4385
Worker	5.7000e-004	4.7000e-004	6.1200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4871	1.4871	4.0000e-005	4.0000e-005	1.5002
Total	**8.8300e-003**	**0.3246**	**0.0749**	**1.1700e-003**	**0.0341**	**2.3500e-003**	**0.0364**	**9.3400e-003**	**2.2500e-003**	**0.0116**	**0.0000**	**116.2209**	**116.2209**	**6.1400e-003**	**0.0182**	**121.8102**

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					0.0128	0.0000	0.0128	1.4000e-003	0.0000	1.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0472	0.5223	0.3604	8.6000e-004		0.0202	0.0202		0.0186	0.0186	0.0000	75.9775	75.9775	0.0246	0.0000	76.5918
Total	**0.0472**	**0.5223**	**0.3604**	**8.6000e-004**	**0.0128**	**0.0202**	**0.0330**	**1.4000e-003**	**0.0186**	**0.0200**	**0.0000**	**75.9775**	**75.9775**	**0.0246**	**0.0000**	**76.5918**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.2200e-003	0.3230	0.0684	1.1500e-003	0.0299	2.3300e-003	0.0323	8.2900e-003	2.2300e-003	0.0105	0.0000	114.3138	114.3138	6.0900e-003	0.0181	119.8715
Vendor	4.0000e-005	1.1300e-003	3.8000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4201	0.4201	1.0000e-005	6.0000e-005	0.4385
Worker	5.7000e-004	4.7000e-004	6.1200e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4871	1.4871	4.0000e-005	4.0000e-005	1.5002
Total	**8.8300e-003**	**0.3246**	**0.0749**	**1.1700e-003**	**0.0317**	**2.3500e-003**	**0.0341**	**8.7800e-003**	**2.2500e-003**	**0.0110**	**0.0000**	**116.2209**	**116.2209**	**6.1400e-003**	**0.0182**	**121.8102**

3.7 Utility Trenching - 2022

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	2.4900e-003	0.0253	0.0338	5.0000e-005		1.3600e-003	1.3600e-003		1.2500e-003	1.2500e-003	0.0000	4.1247	4.1247	1.3300e-003	0.0000	4.1580
Total	**2.4900e-003**	**0.0253**	**0.0338**	**5.0000e-005**		**1.3600e-003**	**1.3600e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**4.1247**	**4.1247**	**1.3300e-003**	**0.0000**	**4.1580**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.8000e-004	1.5000e-004	1.9500e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.4732	0.4732	1.0000e-005	1.0000e-005	0.4773
Total	**1.8000e-004**	**1.5000e-004**	**1.9500e-003**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**5.8000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4732**	**0.4732**	**1.0000e-005**	**1.0000e-005**	**0.4773**

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	2.4900e-003	0.0253	0.0338	5.0000e-005		1.3600e-003	1.3600e-003		1.2500e-003	1.2500e-003	0.0000	4.1247	4.1247	1.3300e-003	0.0000	4.1580
Total	**2.4900e-003**	**0.0253**	**0.0338**	**5.0000e-005**		**1.3600e-003**	**1.3600e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**4.1247**	**4.1247**	**1.3300e-003**	**0.0000**	**4.1580**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.8000e-004	1.5000e-004	1.9500e-003	1.0000e-005	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4732	0.4732	1.0000e-005	1.0000e-005	0.4773
Total	**1.8000e-004**	**1.5000e-004**	**1.9500e-003**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**5.3000e-004**	**1.4000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4732**	**0.4732**	**1.0000e-005**	**1.0000e-005**	**0.4773**

3.8 Fine Grading - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8700e-003	0.0142	0.0173	2.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	2.0258	2.0258	6.6000e-004	0.0000	2.0422
Total	**1.8700e-003**	**0.0142**	**0.0173**	**2.0000e-005**	**0.0000**	**8.0000e-004**	**8.0000e-004**	**0.0000**	**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.0258**	**2.0258**	**6.6000e-004**	**0.0000**	**2.0422**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.0000e-005	6.2000e-004	2.0000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2292	0.2292	1.0000e-005	3.0000e-005	0.2392
Worker	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2704	0.2704	1.0000e-005	1.0000e-005	0.2728
Total	**1.2000e-004**	**7.1000e-004**	**1.3100e-003**	**0.0000**	**4.1000e-004**	**1.0000e-005**	**4.1000e-004**	**1.1000e-004**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**0.4995**	**0.4995**	**2.0000e-005**	**4.0000e-005**	**0.5120**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8700e-003	0.0142	0.0173	2.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	2.0258	2.0258	6.6000e-004	0.0000	2.0422
Total	**1.8700e-003**	**0.0142**	**0.0173**	**2.0000e-005**	**0.0000**	**8.0000e-004**	**8.0000e-004**	**0.0000**	**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.0258**	**2.0258**	**6.6000e-004**	**0.0000**	**2.0422**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.0000e-005	6.2000e-004	2.0000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2292	0.2292	1.0000e-005	3.0000e-005	0.2392
Worker	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2704	0.2704	1.0000e-005	1.0000e-005	0.2728
Total	**1.2000e-004**	**7.1000e-004**	**1.3100e-003**	**0.0000**	**3.7000e-004**	**1.0000e-005**	**3.9000e-004**	**1.0000e-004**	**1.0000e-005**	**1.1000e-004**	**0.0000**	**0.4995**	**0.4995**	**2.0000e-005**	**4.0000e-005**	**0.5120**

3.9 Architectural Coating - 2022

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	0.6169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4800e-003	0.0355	0.0595	9.0000e-005		1.2400e-003	1.2400e-003		1.2100e-003	1.2100e-003	0.0000	8.1394	8.1394	1.9400e-003	0.0000	8.1879
Total	**0.6204**	**0.0355**	**0.0595**	**9.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**8.1394**	**8.1394**	**1.9400e-003**	**0.0000**	**8.1879**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.2000e-004	6.0000e-004	7.7900e-003	2.0000e-005	2.3000e-003	2.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.3000e-004	0.0000	1.8926	1.8926	5.0000e-005	5.0000e-005	1.9094
Total	**7.2000e-004**	**6.0000e-004**	**7.7900e-003**	**2.0000e-005**	**2.3000e-003**	**2.0000e-005**	**2.3200e-003**	**6.1000e-004**	**1.0000e-005**	**6.3000e-004**	**0.0000**	**1.8926**	**1.8926**	**5.0000e-005**	**5.0000e-005**	**1.9094**

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	0.6169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4800e-003	0.0355	0.0595	9.0000e-005		1.2400e-003	1.2400e-003		1.2100e-003	1.2100e-003	0.0000	8.1394	8.1394	1.9400e-003	0.0000	8.1879
Total	**0.6204**	**0.0355**	**0.0595**	**9.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**8.1394**	**8.1394**	**1.9400e-003**	**0.0000**	**8.1879**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.2000e-004	6.0000e-004	7.7900e-003	2.0000e-005	2.1200e-003	2.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8926	1.8926	5.0000e-005	5.0000e-005	1.9094
Total	**7.2000e-004**	**6.0000e-004**	**7.7900e-003**	**2.0000e-005**	**2.1200e-003**	**2.0000e-005**	**2.1400e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8926**	**1.8926**	**5.0000e-005**	**5.0000e-005**	**1.9094**

3.10 Finishing/Landscaping - 2022

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	2.2800e-003	0.0232	0.0310	4.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.7837	3.7837	1.2200e-003	0.0000	3.8142
Total	**2.2800e-003**	**0.0232**	**0.0310**	**4.0000e-005**		**1.2500e-003**	**1.2500e-003**		**1.1500e-003**	**1.1500e-003**	**0.0000**	**3.7837**	**3.7837**	**1.2200e-003**	**0.0000**	**3.8142**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7000e-004	1.5000e-004	1.8900e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4596	0.4596	1.0000e-005	1.0000e-005	0.4637
Total	**1.7000e-004**	**1.5000e-004**	**1.8900e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.6000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**1.0000e-005**	**0.4637**

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	2.2800e-003	0.0232	0.0310	4.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.7837	3.7837	1.2200e-003	0.0000	3.8142
Total	**2.2800e-003**	**0.0232**	**0.0310**	**4.0000e-005**		**1.2500e-003**	**1.2500e-003**		**1.1500e-003**	**1.1500e-003**	**0.0000**	**3.7837**	**3.7837**	**1.2200e-003**	**0.0000**	**3.8142**

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	1.7000e-004	1.5000e-004	1.8900e-003	1.0000e-005	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4596	0.4596	1.0000e-005	1.0000e-005	0.4637
Total	**1.7000e-004**	**1.5000e-004**	**1.8900e-003**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**5.2000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**1.0000e-005**	**0.4637**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
General Light Industry	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. Please see assumptions in the AQ/GHG appendix.

Construction Phase - Based on information provided. Please see the assumptions file in the AQ/GHG appendix for further details.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Grading -

Demolition -

Trips and VMT - Based on information provided. Please see the assumptions in the AQ/GHG appendix for further details.

Construction Off-road Equipment Mitigation - Based on South Coast Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	PhaseEndDate	10/18/2022	8/17/2022
tblConstructionPhase	PhaseEndDate	8/23/2022	9/20/2022
tblConstructionPhase	PhaseEndDate	8/24/2021	3/15/2022
tblConstructionPhase	PhaseEndDate	10/5/2021	4/20/2022
tblConstructionPhase	PhaseEndDate	9/7/2021	3/24/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	7/20/2022
tblConstructionPhase	PhaseStartDate	10/6/2021	3/19/2022
tblConstructionPhase	PhaseStartDate	7/28/2021	2/1/2022
tblConstructionPhase	PhaseStartDate	9/8/2021	3/22/2022
tblConstructionPhase	PhaseStartDate	8/25/2021	3/18/2022
tblGrading	MaterialImported	0.00	14,933.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	89.00	173.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	212.00	130.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	HorsePower	367.00	478.00
tblOffRoadEquipment	HorsePower	97.00	70.00
tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	32.00	34.00
tblTripsAndVMT	HaulingTripNumber	1,867.00	2,987.00
tblTripsAndVMT	HaulingTripNumber	112.00	114.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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					
2022	60.2003	88.0248	57.2767	0.2233	7.8226	2.5662	10.3888	1.5985	2.3694	3.9678	0.0000	23,093.3912	23,093.3912	3.7517	1.9774	23,776.4391
Maximum	**60.2003**	**88.0248**	**57.2767**	**0.2233**	**7.8226**	**2.5662**	**10.3888**	**1.5985**	**2.3694**	**3.9678**	**0.0000**	**23,093.3912**	**23,093.3912**	**3.7517**	**1.9774**	**23,776.4391**

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					
2022	60.2003	88.0248	57.2767	0.2233	5.6344	2.5662	8.2006	1.3159	2.3694	3.6853	0.0000	23,093.3912	23,093.3912	3.7517	1.9774	23,776.4391
Maximum	**60.2003**	**88.0248**	**57.2767**	**0.2233**	**5.6344**	**2.5662**	**8.2006**	**1.3159**	**2.3694**	**3.6853**	**0.0000**	**23,093.3912**	**23,093.3912**	**3.7517**	**1.9774**	**23,776.4391**

	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**	**27.97**	**0.00**	**21.06**	**17.68**	**0.00**	**7.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	2/1/2022	3/15/2022	5	31	
2	Asphalt Demolition	Demolition	2/18/2022	3/1/2022	5	8	
3	Site Preparation	Site Preparation	3/18/2022	3/24/2022	5	5	
4	Building Construction	Building Construction	3/19/2022	9/20/2022	5	132	
5	Rough Grading	Grading	3/22/2022	4/20/2022	5	22	
6	Utility Trenching	Trenching	4/18/2022	5/16/2022	5	21	
7	Fine Grading	Grading	7/2/2022	7/19/2022	5	12	
8	Architectural Coating	Architectural Coating	7/20/2022	8/17/2022	5	21	
9	Finishing/Landscaping	Trenching	8/18/2022	10/4/2022	5	34	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 55

Acres of Paving: 3.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 194,745; Non-Residential Outdoor: 64,915; Striped Parking Area: 6,525

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	7.00	231	0.29
Building Demolition	Excavators	1	8.00	311	0.38
Rough Grading	Excavators	0	8.00	158	0.38
Building Construction	Forklifts	3	8.00	173	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Rough Grading	Graders	1	8.00	179	0.41
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Asphalt Demolition	Excavators	1	8.00	311	0.38
Fine Grading	Excavators	0	8.00	158	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Graders	0	8.00	187	0.41
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Building Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Asphalt Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Site Preparation	Crawler Tractors	1	8.00	130	0.43
Building Construction	Aerial Lifts	3	8.00	74	0.31
Rough Grading	Scrapers	2	8.00	365	0.48
Rough Grading	Scrapers	2	8.00	478	0.48
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	70	0.37
Fine Grading	Rollers	1	8.00	36	0.38
Architectural Coating	Aerial Lifts	3	8.00	74	0.31
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	79	0.37

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	2	5.00	2.00	34.00	14.70	6.90	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	2,987.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	100.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	2	5.00	2.00	114.00	14.70	6.90	28.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2022

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					0.2230	0.0000	0.2230	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030		1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.2230**	**0.1119**	**0.3349**	**0.0338**	**0.1030**	**0.1367**		**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.5600e-003	0.0780	0.0249	2.6000e-004	6.7300e-003	4.9000e-004	7.2200e-003	1.8500e-003	4.7000e-004	2.3200e-003		28.2245	28.2245	1.4400e-003	4.4800e-003	29.5947
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0128	9.3000e-004	0.0137	3.6900e-003	8.9000e-004	4.5800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0238**	**0.1886**	**0.2552**	**1.1600e-003**	**0.0754**	**1.7800e-003**	**0.0772**	**0.0204**	**1.6900e-003**	**0.0221**		**121.9889**	**121.9889**	**4.2600e-003**	**0.0118**	**125.6099**

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					0.0953	0.0000	0.0953	0.0144	0.0000	0.0144			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030	0.0000	1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.0953**	**0.1119**	**0.2072**	**0.0144**	**0.1030**	**0.1174**	**0.0000**	**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.5600e-003	0.0780	0.0249	2.6000e-004	6.2800e-003	4.9000e-004	6.7700e-003	1.7400e-003	4.7000e-004	2.2000e-003		28.2245	28.2245	1.4400e-003	4.4800e-003	29.5947
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0120	9.3000e-004	0.0129	3.4900e-003	8.9000e-004	4.3800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0238**	**0.1886**	**0.2552**	**1.1600e-003**	**0.0698**	**1.7800e-003**	**0.0716**	**0.0190**	**1.6900e-003**	**0.0207**		**121.9889**	**121.9889**	**4.2600e-003**	**0.0118**	**125.6099**

3.3 Asphalt Demolition - 2022

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					3.0226	0.0000	3.0226	0.4577	0.0000	0.4577			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030		1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**3.0226**	**0.1119**	**3.1345**	**0.4577**	**0.1030**	**0.5606**		**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0868	3.2426	0.7027	0.0122	0.3491	0.0248	0.3739	0.0957	0.0237	0.1194		1,341.4249	1,341.4249	0.0717	0.2129	1,406.6449
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0128	9.3000e-004	0.0137	3.6900e-003	8.9000e-004	4.5800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.1080**	**3.3532**	**0.9331**	**0.0131**	**0.4178**	**0.0261**	**0.4439**	**0.1142**	**0.0250**	**0.1392**		**1,435.1893**	**1,435.1893**	**0.0745**	**0.2202**	**1,502.6600**

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					1.2922	0.0000	1.2922	0.1957	0.0000	0.1957			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030	0.0000	1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**1.2922**	**0.1119**	**1.4041**	**0.1957**	**0.1030**	**0.2986**	**0.0000**	**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0868	3.2426	0.7027	0.0122	0.3253	0.0248	0.3502	0.0899	0.0237	0.1136		1,341.4249	1,341.4249	0.0717	0.2129	1,406.6449
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0120	9.3000e-004	0.0129	3.4900e-003	8.9000e-004	4.3800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.1080**	**3.3532**	**0.9331**	**0.0131**	**0.3889**	**0.0261**	**0.4149**	**0.1071**	**0.0250**	**0.1321**		**1,435.1893**	**1,435.1893**	**0.0745**	**0.2202**	**1,502.6600**

3.4 Site Preparation - 2022

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.3826	3.7621	3.2089	4.7900e-003		0.2101	0.2101		0.1933	0.1933		463.6243	463.6243	0.1500		467.3729
Total	**0.3826**	**3.7621**	**3.2089**	**4.7900e-003**	**0.5303**	**0.2101**	**0.7403**	**0.0573**	**0.1933**	**0.2505**		**463.6243**	**463.6243**	**0.1500**		**467.3729**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0128	9.3000e-004	0.0137	3.6900e-003	8.9000e-004	4.5800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0104	7.5800e-003	0.1181	3.1000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		31.0033	31.0033	8.4000e-004	7.5000e-004	31.2481
Total	**0.0143**	**0.1056**	**0.1517**	**7.0000e-004**	**0.0463**	**1.1400e-003**	**0.0475**	**0.0126**	**1.0900e-003**	**0.0137**		**73.0956**	**73.0956**	**2.2500e-003**	**6.8200e-003**	**75.1831**

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.3826	3.7621	3.2089	4.7900e-003		0.2101	0.2101		0.1933	0.1933	0.0000	463.6243	463.6243	0.1500		467.3729
Total	**0.3826**	**3.7621**	**3.2089**	**4.7900e-003**	**0.2267**	**0.2101**	**0.4367**	**0.0245**	**0.1933**	**0.2177**	**0.0000**	**463.6243**	**463.6243**	**0.1500**		**467.3729**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0120	9.3000e-004	0.0129	3.4900e-003	8.9000e-004	4.3800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0104	7.5800e-003	0.1181	3.1000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		31.0033	31.0033	8.4000e-004	7.5000e-004	31.2481
Total	**0.0143**	**0.1056**	**0.1517**	**7.0000e-004**	**0.0429**	**1.1400e-003**	**0.0440**	**0.0117**	**1.0900e-003**	**0.0128**		**73.0956**	**73.0956**	**2.2500e-003**	**6.8200e-003**	**75.1831**

3.5 Building Construction - 2022

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	0.6259	6.5142	9.7087	0.0149		0.2790	0.2790		0.2567	0.2567		1,437.3350	1,437.3350	0.4649		1,448.9566
Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**		**0.2790**	**0.2790**		**0.2567**	**0.2567**		**1,437.3350**	**1,437.3350**	**0.4649**		**1,448.9566**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0767	1.9104	0.6550	7.6400e-003	0.2498	0.0182	0.2680	0.0719	0.0174	0.0893		820.8002	820.8002	0.0274	0.1183	856.7330
Worker	0.3460	0.2526	3.9358	0.0102	1.1178	7.1500e-003	1.1249	0.2964	6.5800e-003	0.3030		1,033.4419	1,033.4419	0.0282	0.0250	1,041.6027
Total	**0.4227**	**2.1630**	**4.5908**	**0.0179**	**1.3676**	**0.0254**	**1.3929**	**0.3684**	**0.0240**	**0.3924**		**1,854.2421**	**1,854.2421**	**0.0556**	**0.1433**	**1,898.3357**

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	0.6259	6.5142	9.7087	0.0149		0.2790	0.2790		0.2567	0.2567	0.0000	1,437.3350	1,437.3350	0.4649		1,448.9566
Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**		**0.2790**	**0.2790**		**0.2567**	**0.2567**	**0.0000**	**1,437.3350**	**1,437.3350**	**0.4649**		**1,448.9566**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	0.0767	1.9104	0.6550	7.6400e-003	0.2338	0.0182	0.2520	0.0680	0.0174	0.0854		820.8002	820.8002	0.0274	0.1183	856.7330
Worker	0.3460	0.2526	3.9358	0.0102	1.0303	7.1500e-003	1.0375	0.2750	6.5800e-003	0.2816		1,033.4419	1,033.4419	0.0282	0.0250	1,041.6027
Total	**0.4227**	**2.1630**	**4.5908**	**0.0179**	**1.2641**	**0.0254**	**1.2895**	**0.3430**	**0.0240**	**0.3670**		**1,854.2421**	**1,854.2421**	**0.0556**	**0.1433**	**1,898.3357**

3.6 Rough Grading - 2022

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					2.7280	0.0000	2.7280	0.2979	0.0000	0.2979			0.0000			0.0000
Off-Road	4.2950	47.4838	32.7612	0.0786		1.8373	1.8373		1.6903	1.6903		7,613.7217	7,613.7217	2.4624		7,675.2825
Total	**4.2950**	**47.4838**	**32.7612**	**0.0786**	**2.7280**	**1.8373**	**4.5653**	**0.2979**	**1.6903**	**1.9882**		**7,613.7217**	**7,613.7217**	**2.4624**		**7,675.2825**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.7540	27.8603	6.1783	0.1046	2.9699	0.2113	3.1812	0.8142	0.2022	1.0164		11,454.2639	11,454.2639	0.6110	1.8174	12,011.1328
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0128	9.3000e-004	0.0137	3.6900e-003	8.9000e-004	4.5800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	**0.8099**	**27.9962**	**6.8023**	**0.1065**	**3.1504**	**0.2133**	**3.3637**	**0.8624**	**0.2040**	**1.0664**		**11,651.3725**	**11,651.3725**	**0.6166**	**1.8273**	**12,211.3083**

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					1.1662	0.0000	1.1662	0.1274	0.0000	0.1274			0.0000			0.0000
Off-Road	4.2950	47.4838	32.7612	0.0786		1.8373	1.8373		1.6903	1.6903	0.0000	7,613.7217	7,613.7217	2.4624		7,675.2825
Total	**4.2950**	**47.4838**	**32.7612**	**0.0786**	**1.1662**	**1.8373**	**3.0036**	**0.1274**	**1.6903**	**1.8177**	**0.0000**	**7,613.7217**	**7,613.7217**	**2.4624**		**7,675.2825**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.7540	27.8603	6.1783	0.1046	2.7680	0.2113	2.9793	0.7646	0.2022	0.9668		11,454.2639	11,454.2639	0.6110	1.8174	12,011.1328
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0120	9.3000e-004	0.0129	3.4900e-003	8.9000e-004	4.3800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	**0.8099**	**27.9962**	**6.8023**	**0.1065**	**2.9345**	**0.2133**	**3.1478**	**0.8094**	**0.2040**	**1.0134**		**11,651.3725**	**11,651.3725**	**0.6166**	**1.8273**	**12,211.3083**

3.7 Utility Trenching - 2022

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	0.2368	2.4086	3.2169	4.4700e-003		0.1295	0.1295		0.1192	0.1192		433.0153	433.0153	0.1401		436.5164
Total	**0.2368**	**2.4086**	**3.2169**	**4.4700e-003**		**0.1295**	**0.1295**		**0.1192**	**0.1192**		**433.0153**	**433.0153**	**0.1401**		**436.5164**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0173	0.0126	0.1968	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0173**	**0.0126**	**0.1968**	**5.1000e-004**	**0.0559**	**3.6000e-004**	**0.0563**	**0.0148**	**3.3000e-004**	**0.0152**		**51.6721**	**51.6721**	**1.4100e-003**	**1.2500e-003**	**52.0801**

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	0.2368	2.4086	3.2169	4.4700e-003		0.1295	0.1295		0.1192	0.1192	0.0000	433.0153	433.0153	0.1401		436.5164
Total	**0.2368**	**2.4086**	**3.2169**	**4.4700e-003**		**0.1295**	**0.1295**		**0.1192**	**0.1192**	**0.0000**	**433.0153**	**433.0153**	**0.1401**		**436.5164**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
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
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0173**	**0.0126**	**0.1968**	**5.1000e-004**	**0.0515**	**3.6000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**51.6721**	**51.6721**	**1.4100e-003**	**1.2500e-003**	**52.0801**

3.8 Fine Grading - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3123	2.3606	2.8848	3.8400e-003		0.1337	0.1337		0.1230	0.1230		372.1744	372.1744	0.1204		375.1837
Total	**0.3123**	**2.3606**	**2.8848**	**3.8400e-003**	**0.0000**	**0.1337**	**0.1337**	**0.0000**	**0.1230**	**0.1230**		**372.1744**	**372.1744**	**0.1204**		**375.1837**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0128	9.3000e-004	0.0137	3.6900e-003	8.9000e-004	4.5800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0212**	**0.1106**	**0.2304**	**9.0000e-004**	**0.0687**	**1.2900e-003**	**0.0700**	**0.0185**	**1.2200e-003**	**0.0197**		**93.7644**	**93.7644**	**2.8200e-003**	**7.3200e-003**	**96.0152**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3123	2.3606	2.8848	3.8400e-003		0.1337	0.1337		0.1230	0.1230	0.0000	372.1744	372.1744	0.1204		375.1837
Total	**0.3123**	**2.3606**	**2.8848**	**3.8400e-003**	**0.0000**	**0.1337**	**0.1337**	**0.0000**	**0.1230**	**0.1230**	**0.0000**	**372.1744**	**372.1744**	**0.1204**		**375.1837**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	3.9400e-003	0.0980	0.0336	3.9000e-004	0.0120	9.3000e-004	0.0129	3.4900e-003	8.9000e-004	4.3800e-003		42.0923	42.0923	1.4100e-003	6.0700e-003	43.9350
Worker	0.0173	0.0126	0.1968	5.1000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		51.6721	51.6721	1.4100e-003	1.2500e-003	52.0801
Total	**0.0212**	**0.1106**	**0.2304**	**9.0000e-004**	**0.0635**	**1.2900e-003**	**0.0648**	**0.0172**	**1.2200e-003**	**0.0185**		**93.7644**	**93.7644**	**2.8200e-003**	**7.3200e-003**	**96.0152**

3.9 Architectural Coating - 2022

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	58.7508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3316	3.3828	5.6686	8.8900e-003		0.1184	0.1184		0.1154	0.1154		854.4894	854.4894	0.2037		859.5809
Total	**59.0825**	**3.3828**	**5.6686**	**8.8900e-003**		**0.1184**	**0.1184**		**0.1154**	**0.1154**		**854.4894**	**854.4894**	**0.2037**		**859.5809**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0692	0.0505	0.7872	2.0400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0692**	**0.0505**	**0.7872**	**2.0400e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**206.6884**	**206.6884**	**5.6300e-003**	**5.0000e-003**	**208.3205**

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	58.7508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3316	3.3828	5.6686	8.8900e-003		0.1184	0.1184		0.1154	0.1154	0.0000	854.4894	854.4894	0.2037		859.5809
Total	**59.0825**	**3.3828**	**5.6686**	**8.8900e-003**		**0.1184**	**0.1184**		**0.1154**	**0.1154**	**0.0000**	**854.4894**	**854.4894**	**0.2037**		**859.5809**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
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
Worker	0.0692	0.0505	0.7872	2.0400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		206.6884	206.6884	5.6300e-003	5.0000e-003	208.3205
Total	**0.0692**	**0.0505**	**0.7872**	**2.0400e-003**	**0.2061**	**1.4300e-003**	**0.2075**	**0.0550**	**1.3200e-003**	**0.0563**		**206.6884**	**206.6884**	**5.6300e-003**	**5.0000e-003**	**208.3205**

3.10 Finishing/Landscaping - 2022

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	0.1341	1.3647	1.8227	2.5300e-003		0.0734	0.0734		0.0675	0.0675		245.3389	245.3389	0.0794		247.3226
Total	**0.1341**	**1.3647**	**1.8227**	**2.5300e-003**		**0.0734**	**0.0734**		**0.0675**	**0.0675**		**245.3389**	**245.3389**	**0.0794**		**247.3226**

Construction - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0104	7.5800e-003	0.1181	3.1000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		31.0033	31.0033	8.4000e-004	7.5000e-004	31.2481
Total	**0.0104**	**7.5800e-003**	**0.1181**	**3.1000e-004**	**0.0335**	**2.1000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.0900e-003**		**31.0033**	**31.0033**	**8.4000e-004**	**7.5000e-004**	**31.2481**

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	0.1341	1.3647	1.8227	2.5300e-003		0.0734	0.0734		0.0675	0.0675	0.0000	245.3389	245.3389	0.0794		247.3226
Total	**0.1341**	**1.3647**	**1.8227**	**2.5300e-003**		**0.0734**	**0.0734**		**0.0675**	**0.0675**	**0.0000**	**245.3389**	**245.3389**	**0.0794**		**247.3226**

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
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
Worker	0.0104	7.5800e-003	0.1181	3.1000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		31.0033	31.0033	8.4000e-004	7.5000e-004	31.2481
Total	**0.0104**	**7.5800e-003**	**0.1181**	**3.1000e-004**	**0.0309**	**2.1000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**31.0033**	**31.0033**	**8.4000e-004**	**7.5000e-004**	**31.2481**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
General Light Industry	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided. Please see assumptions in the AQ/GHG appendix.

Construction Phase - Based on information provided. Please see the assumptions file in the AQ/GHG appendix for further details.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Grading -

Demolition -

Trips and VMT - Based on information provided. Please see the assumptions in the AQ/GHG appendix for further details.

Construction Off-road Equipment Mitigation - Based on South Coast Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	132.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	PhaseEndDate	10/18/2022	8/17/2022
tblConstructionPhase	PhaseEndDate	8/23/2022	9/20/2022
tblConstructionPhase	PhaseEndDate	8/24/2021	3/15/2022
tblConstructionPhase	PhaseEndDate	10/5/2021	4/20/2022
tblConstructionPhase	PhaseEndDate	9/7/2021	3/24/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	7/20/2022
tblConstructionPhase	PhaseStartDate	10/6/2021	3/19/2022
tblConstructionPhase	PhaseStartDate	7/28/2021	2/1/2022
tblConstructionPhase	PhaseStartDate	9/8/2021	3/22/2022
tblConstructionPhase	PhaseStartDate	8/25/2021	3/18/2022
tblGrading	MaterialImported	0.00	14,933.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	89.00	173.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	158.00	311.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	65.00	74.30
tblOffRoadEquipment	HorsePower	212.00	130.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	HorsePower	367.00	478.00
tblOffRoadEquipment	HorsePower	97.00	70.00
tblOffRoadEquipment	HorsePower	80.00	36.00
tblOffRoadEquipment	HorsePower	63.00	74.00
tblOffRoadEquipment	HorsePower	97.00	79.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	32.00	34.00
tblTripsAndVMT	HaulingTripNumber	1,867.00	2,987.00
tblTripsAndVMT	HaulingTripNumber	112.00	114.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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					
2022	60.2287	89.2649	57.0063	0.2227	7.8226	2.5666	10.3892	1.5985	2.3698	3.9682	0.0000	23,031.9649	23,031.9649	3.7511	1.9801	23,715.7997
Maximum	**60.2287**	**89.2649**	**57.0063**	**0.2227**	**7.8226**	**2.5666**	**10.3892**	**1.5985**	**2.3698**	**3.9682**	**0.0000**	**23,031.9649**	**23,031.9649**	**3.7511**	**1.9801**	**23,715.7997**

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					
2022	60.2287	89.2649	57.0063	0.2227	5.6344	2.5666	8.2010	1.3159	2.3698	3.6857	0.0000	23,031.9649	23,031.9649	3.7511	1.9801	23,715.7997
Maximum	**60.2287**	**89.2649**	**57.0063**	**0.2227**	**5.6344**	**2.5666**	**8.2010**	**1.3159**	**2.3698**	**3.6857**	**0.0000**	**23,031.9649**	**23,031.9649**	**3.7511**	**1.9801**	**23,715.7997**

	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**	**27.97**	**0.00**	**21.06**	**17.68**	**0.00**	**7.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	2/1/2022	3/15/2022	5	31	
2	Asphalt Demolition	Demolition	2/18/2022	3/1/2022	5	8	
3	Site Preparation	Site Preparation	3/18/2022	3/24/2022	5	5	
4	Building Construction	Building Construction	3/19/2022	9/20/2022	5	132	
5	Rough Grading	Grading	3/22/2022	4/20/2022	5	22	
6	Utility Trenching	Trenching	4/18/2022	5/16/2022	5	21	
7	Fine Grading	Grading	7/2/2022	7/19/2022	5	12	
8	Architectural Coating	Architectural Coating	7/20/2022	8/17/2022	5	21	
9	Finishing/Landscaping	Trenching	8/18/2022	10/4/2022	5	34	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 55

Acres of Paving: 3.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 194,745; Non-Residential Outdoor: 64,915; Striped Parking Area: 6,525

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	7.00	231	0.29
Building Demolition	Excavators	1	8.00	311	0.38
Rough Grading	Excavators	0	8.00	158	0.38
Building Construction	Forklifts	3	8.00	173	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Rough Grading	Graders	1	8.00	179	0.41
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Asphalt Demolition	Excavators	1	8.00	311	0.38
Fine Grading	Excavators	0	8.00	158	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Fine Grading	Graders	0	8.00	187	0.41
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Rubber Tired Dozers	0	8.00	247	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	79	0.37
Building Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Asphalt Demolition	Skid Steer Loaders	1	8.00	74.3	0.37
Site Preparation	Crawler Tractors	1	8.00	130	0.43
Building Construction	Aerial Lifts	3	8.00	74	0.31
Rough Grading	Scrapers	2	8.00	365	0.48
Rough Grading	Scrapers	2	8.00	478	0.48
Utility Trenching	Tractors/Loaders/Backhoes	2	8.00	70	0.37
Fine Grading	Rollers	1	8.00	36	0.38
Architectural Coating	Aerial Lifts	3	8.00	74	0.31
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	79	0.37

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	2	5.00	2.00	34.00	14.70	6.90	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	2.00	2,987.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	100.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	2	5.00	2.00	114.00	14.70	6.90	28.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Demolition - 2022

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					0.2230	0.0000	0.2230	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030		1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.2230**	**0.1119**	**0.3349**	**0.0338**	**0.1030**	**0.1367**		**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.4400e-003	0.0813	0.0256	2.6000e-004	6.7300e-003	4.9000e-004	7.2300e-003	1.8500e-003	4.7000e-004	2.3200e-003		28.2464	28.2464	1.4400e-003	4.4800e-003	29.6175
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0128	9.4000e-004	0.0138	3.6900e-003	9.0000e-004	4.5800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0249**	**0.1973**	**0.2411**	**1.1300e-003**	**0.0754**	**1.7900e-003**	**0.0772**	**0.0204**	**1.7000e-003**	**0.0221**		**119.2947**	**119.2947**	**4.2600e-003**	**0.0119**	**122.9448**

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					0.0953	0.0000	0.0953	0.0144	0.0000	0.0144			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030	0.0000	1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**0.0953**	**0.1119**	**0.2072**	**0.0144**	**0.1030**	**0.1174**	**0.0000**	**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.4400e-003	0.0813	0.0256	2.6000e-004	6.2800e-003	4.9000e-004	6.7700e-003	1.7400e-003	4.7000e-004	2.2100e-003		28.2464	28.2464	1.4400e-003	4.4800e-003	29.6175
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0120	9.4000e-004	0.0129	3.4900e-003	9.0000e-004	4.3800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0249**	**0.1973**	**0.2411**	**1.1300e-003**	**0.0698**	**1.7900e-003**	**0.0716**	**0.0190**	**1.7000e-003**	**0.0207**		**119.2947**	**119.2947**	**4.2600e-003**	**0.0119**	**122.9448**

3.3 Asphalt Demolition - 2022

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					3.0226	0.0000	3.0226	0.4577	0.0000	0.4577			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030		1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**3.0226**	**0.1119**	**3.1345**	**0.4577**	**0.1030**	**0.5606**		**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0852	3.3727	0.7123	0.0123	0.3491	0.0249	0.3739	0.0957	0.0238	0.1195		1,341.7089	1,341.7089	0.0716	0.2129	1,406.9424
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0128	9.4000e-004	0.0138	3.6900e-003	9.0000e-004	4.5800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.1076**	**3.4887**	**0.9277**	**0.0131**	**0.4178**	**0.0262**	**0.4439**	**0.1142**	**0.0250**	**0.1392**		**1,432.7572**	**1,432.7572**	**0.0744**	**0.2203**	**1,500.2696**

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					1.2922	0.0000	1.2922	0.1957	0.0000	0.1957			0.0000			0.0000
Off-Road	0.3456	3.2204	3.7849	0.0125		0.1119	0.1119		0.1030	0.1030	0.0000	1,206.2485	1,206.2485	0.3901		1,216.0017
Total	**0.3456**	**3.2204**	**3.7849**	**0.0125**	**1.2922**	**0.1119**	**1.4041**	**0.1957**	**0.1030**	**0.2986**	**0.0000**	**1,206.2485**	**1,206.2485**	**0.3901**		**1,216.0017**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0852	3.3727	0.7123	0.0123	0.3253	0.0249	0.3502	0.0899	0.0238	0.1136		1,341.7089	1,341.7089	0.0716	0.2129	1,406.9424
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0120	9.4000e-004	0.0129	3.4900e-003	9.0000e-004	4.3800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.1076**	**3.4887**	**0.9277**	**0.0131**	**0.3889**	**0.0262**	**0.4150**	**0.1071**	**0.0250**	**0.1321**		**1,432.7572**	**1,432.7572**	**0.0744**	**0.2203**	**1,500.2696**

3.4 Site Preparation - 2022

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.3826	3.7621	3.2089	4.7900e-003		0.2101	0.2101		0.1933	0.1933		463.6243	463.6243	0.1500		467.3729
Total	**0.3826**	**3.7621**	**3.2089**	**4.7900e-003**	**0.5303**	**0.2101**	**0.7403**	**0.0573**	**0.1933**	**0.2505**		**463.6243**	**463.6243**	**0.1500**		**467.3729**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0128	9.4000e-004	0.0138	3.6900e-003	9.0000e-004	4.5800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0111	8.3700e-003	0.1084	2.9000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.3641	29.3641	8.5000e-004	8.0000e-004	29.6245
Total	**0.0150**	**0.1104**	**0.1432**	**6.8000e-004**	**0.0463**	**1.1500e-003**	**0.0475**	**0.0126**	**1.1000e-003**	**0.0137**		**71.4722**	**71.4722**	**2.2500e-003**	**6.8700e-003**	**73.5776**

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.3826	3.7621	3.2089	4.7900e-003		0.2101	0.2101		0.1933	0.1933	0.0000	463.6243	463.6243	0.1500		467.3729
Total	**0.3826**	**3.7621**	**3.2089**	**4.7900e-003**	**0.2267**	**0.2101**	**0.4367**	**0.0245**	**0.1933**	**0.2177**	**0.0000**	**463.6243**	**463.6243**	**0.1500**		**467.3729**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0120	9.4000e-004	0.0129	3.4900e-003	9.0000e-004	4.3800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0111	8.3700e-003	0.1084	2.9000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		29.3641	29.3641	8.5000e-004	8.0000e-004	29.6245
Total	**0.0150**	**0.1104**	**0.1432**	**6.8000e-004**	**0.0429**	**1.1500e-003**	**0.0441**	**0.0117**	**1.1000e-003**	**0.0128**		**71.4722**	**71.4722**	**2.2500e-003**	**6.8700e-003**	**73.5776**

3.5 Building Construction - 2022

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	0.6259	6.5142	9.7087	0.0149		0.2790	0.2790		0.2567	0.2567		1,437.3350	1,437.3350	0.4649		1,448.9566
Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**		**0.2790**	**0.2790**		**0.2567**	**0.2567**		**1,437.3350**	**1,437.3350**	**0.4649**		**1,448.9566**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0758	1.9891	0.6776	7.6400e-003	0.2498	0.0183	0.2681	0.0719	0.0175	0.0894		821.1086	821.1086	0.0273	0.1184	857.0847
Worker	0.3704	0.2791	3.6137	9.6800e-003	1.1178	7.1500e-003	1.1249	0.2964	6.5800e-003	0.3030		978.8032	978.8032	0.0285	0.0267	987.4834
Total	**0.4462**	**2.2682**	**4.2913**	**0.0173**	**1.3676**	**0.0254**	**1.3930**	**0.3684**	**0.0241**	**0.3924**		**1,799.9118**	**1,799.9118**	**0.0558**	**0.1452**	**1,844.5681**

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	0.6259	6.5142	9.7087	0.0149		0.2790	0.2790		0.2567	0.2567	0.0000	1,437.3350	1,437.3350	0.4649		1,448.9566
Total	**0.6259**	**6.5142**	**9.7087**	**0.0149**		**0.2790**	**0.2790**		**0.2567**	**0.2567**	**0.0000**	**1,437.3350**	**1,437.3350**	**0.4649**		**1,448.9566**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	0.0758	1.9891	0.6776	7.6400e-003	0.2338	0.0183	0.2521	0.0680	0.0175	0.0855		821.1086	821.1086	0.0273	0.1184	857.0847
Worker	0.3704	0.2791	3.6137	9.6800e-003	1.0303	7.1500e-003	1.0375	0.2750	6.5800e-003	0.2816		978.8032	978.8032	0.0285	0.0267	987.4834
Total	**0.4462**	**2.2682**	**4.2913**	**0.0173**	**1.2641**	**0.0254**	**1.2895**	**0.3430**	**0.0241**	**0.3670**		**1,799.9118**	**1,799.9118**	**0.0558**	**0.1452**	**1,844.5681**

3.6 Rough Grading - 2022

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					2.7280	0.0000	2.7280	0.2979	0.0000	0.2979			0.0000			0.0000
Off-Road	4.2950	47.4838	32.7612	0.0786		1.8373	1.8373		1.6903	1.6903		7,613.7217	7,613.7217	2.4624		7,675.2825
Total	**4.2950**	**47.4838**	**32.7612**	**0.0786**	**2.7280**	**1.8373**	**4.5653**	**0.2979**	**1.6903**	**1.9882**		**7,613.7217**	**7,613.7217**	**2.4624**		**7,675.2825**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.7388	28.9822	6.2707	0.1046	2.9699	0.2117	3.1816	0.8142	0.2025	1.0167		11,456.9713	11,456.9713	0.6101	1.8179	12,013.9664
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0128	9.4000e-004	0.0138	3.6900e-003	9.0000e-004	4.5800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	**0.7983**	**29.1261**	**6.8475**	**0.1064**	**3.1504**	**0.2137**	**3.3641**	**0.8624**	**0.2044**	**1.0667**		**11,645.8999**	**11,645.8999**	**0.6158**	**1.8280**	**12,206.0420**

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					1.1662	0.0000	1.1662	0.1274	0.0000	0.1274			0.0000			0.0000
Off-Road	4.2950	47.4838	32.7612	0.0786		1.8373	1.8373		1.6903	1.6903	0.0000	7,613.7217	7,613.7217	2.4624		7,675.2825
Total	**4.2950**	**47.4838**	**32.7612**	**0.0786**	**1.1662**	**1.8373**	**3.0036**	**0.1274**	**1.6903**	**1.8177**	**0.0000**	**7,613.7217**	**7,613.7217**	**2.4624**		**7,675.2825**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.7388	28.9822	6.2707	0.1046	2.7680	0.2117	2.9796	0.7646	0.2025	0.9671		11,456.9713	11,456.9713	0.6101	1.8179	12,013.9664
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0120	9.4000e-004	0.0129	3.4900e-003	9.0000e-004	4.3800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	**0.7983**	**29.1261**	**6.8475**	**0.1064**	**2.9345**	**0.2137**	**3.1482**	**0.8094**	**0.2044**	**1.0137**		**11,645.8999**	**11,645.8999**	**0.6158**	**1.8280**	**12,206.0420**

3.7 Utility Trenching - 2022

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	0.2368	2.4086	3.2169	4.4700e-003		0.1295	0.1295		0.1192	0.1192		433.0153	433.0153	0.1401		436.5164
Total	**0.2368**	**2.4086**	**3.2169**	**4.4700e-003**		**0.1295**	**0.1295**		**0.1192**	**0.1192**		**433.0153**	**433.0153**	**0.1401**		**436.5164**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0185	0.0140	0.1807	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0185**	**0.0140**	**0.1807**	**4.8000e-004**	**0.0559**	**3.6000e-004**	**0.0563**	**0.0148**	**3.3000e-004**	**0.0152**		**48.9402**	**48.9402**	**1.4200e-003**	**1.3400e-003**	**49.3742**

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	0.2368	2.4086	3.2169	4.4700e-003		0.1295	0.1295		0.1192	0.1192	0.0000	433.0153	433.0153	0.1401		436.5164
Total	**0.2368**	**2.4086**	**3.2169**	**4.4700e-003**		**0.1295**	**0.1295**		**0.1192**	**0.1192**	**0.0000**	**433.0153**	**433.0153**	**0.1401**		**436.5164**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
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
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0185**	**0.0140**	**0.1807**	**4.8000e-004**	**0.0515**	**3.6000e-004**	**0.0519**	**0.0138**	**3.3000e-004**	**0.0141**		**48.9402**	**48.9402**	**1.4200e-003**	**1.3400e-003**	**49.3742**

3.8 Fine Grading - 2022

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3123	2.3606	2.8848	3.8400e-003		0.1337	0.1337		0.1230	0.1230		372.1744	372.1744	0.1204		375.1837
Total	**0.3123**	**2.3606**	**2.8848**	**3.8400e-003**	**0.0000**	**0.1337**	**0.1337**	**0.0000**	**0.1230**	**0.1230**		**372.1744**	**372.1744**	**0.1204**		**375.1837**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0128	9.4000e-004	0.0138	3.6900e-003	9.0000e-004	4.5800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0224**	**0.1160**	**0.2154**	**8.7000e-004**	**0.0687**	**1.3000e-003**	**0.0700**	**0.0185**	**1.2300e-003**	**0.0197**		**91.0483**	**91.0483**	**2.8200e-003**	**7.4100e-003**	**93.3272**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3123	2.3606	2.8848	3.8400e-003		0.1337	0.1337		0.1230	0.1230	0.0000	372.1744	372.1744	0.1204		375.1837
Total	**0.3123**	**2.3606**	**2.8848**	**3.8400e-003**	**0.0000**	**0.1337**	**0.1337**	**0.0000**	**0.1230**	**0.1230**	**0.0000**	**372.1744**	**372.1744**	**0.1204**		**375.1837**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Vendor	3.8900e-003	0.1020	0.0348	3.9000e-004	0.0120	9.4000e-004	0.0129	3.4900e-003	9.0000e-004	4.3800e-003		42.1081	42.1081	1.4000e-003	6.0700e-003	43.9531
Worker	0.0185	0.0140	0.1807	4.8000e-004	0.0515	3.6000e-004	0.0519	0.0138	3.3000e-004	0.0141		48.9402	48.9402	1.4200e-003	1.3400e-003	49.3742
Total	**0.0224**	**0.1160**	**0.2154**	**8.7000e-004**	**0.0635**	**1.3000e-003**	**0.0648**	**0.0172**	**1.2300e-003**	**0.0185**		**91.0483**	**91.0483**	**2.8200e-003**	**7.4100e-003**	**93.3272**

3.9 Architectural Coating - 2022

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	58.7508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3316	3.3828	5.6686	8.8900e-003		0.1184	0.1184		0.1154	0.1154		854.4894	854.4894	0.2037		859.5809
Total	**59.0825**	**3.3828**	**5.6686**	**8.8900e-003**		**0.1184**	**0.1184**		**0.1154**	**0.1154**		**854.4894**	**854.4894**	**0.2037**		**859.5809**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0741	0.0558	0.7227	1.9400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0741**	**0.0558**	**0.7227**	**1.9400e-003**	**0.2236**	**1.4300e-003**	**0.2250**	**0.0593**	**1.3200e-003**	**0.0606**		**195.7606**	**195.7606**	**5.7000e-003**	**5.3500e-003**	**197.4967**

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	58.7508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3316	3.3828	5.6686	8.8900e-003		0.1184	0.1184		0.1154	0.1154	0.0000	854.4894	854.4894	0.2037		859.5809
Total	**59.0825**	**3.3828**	**5.6686**	**8.8900e-003**		**0.1184**	**0.1184**		**0.1154**	**0.1154**	**0.0000**	**854.4894**	**854.4894**	**0.2037**		**859.5809**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
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
Worker	0.0741	0.0558	0.7227	1.9400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		195.7606	195.7606	5.7000e-003	5.3500e-003	197.4967
Total	**0.0741**	**0.0558**	**0.7227**	**1.9400e-003**	**0.2061**	**1.4300e-003**	**0.2075**	**0.0550**	**1.3200e-003**	**0.0563**		**195.7606**	**195.7606**	**5.7000e-003**	**5.3500e-003**	**197.4967**

3.10 Finishing/Landscaping - 2022

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	0.1341	1.3647	1.8227	2.5300e-003		0.0734	0.0734		0.0675	0.0675		245.3389	245.3389	0.0794		247.3226
Total	**0.1341**	**1.3647**	**1.8227**	**2.5300e-003**		**0.0734**	**0.0734**		**0.0675**	**0.0675**		**245.3389**	**245.3389**	**0.0794**		**247.3226**

Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	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	0.0111	8.3700e-003	0.1084	2.9000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.3641	29.3641	8.5000e-004	8.0000e-004	29.6245
Total	**0.0111**	**8.3700e-003**	**0.1084**	**2.9000e-004**	**0.0335**	**2.1000e-004**	**0.0338**	**8.8900e-003**	**2.0000e-004**	**9.0900e-003**		**29.3641**	**29.3641**	**8.5000e-004**	**8.0000e-004**	**29.6245**

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	0.1341	1.3647	1.8227	2.5300e-003		0.0734	0.0734		0.0675	0.0675	0.0000	245.3389	245.3389	0.0794		247.3226
Total	**0.1341**	**1.3647**	**1.8227**	**2.5300e-003**		**0.0734**	**0.0734**		**0.0675**	**0.0675**	**0.0000**	**245.3389**	**245.3389**	**0.0794**		**247.3226**

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
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
Worker	0.0111	8.3700e-003	0.1084	2.9000e-004	0.0309	2.1000e-004	0.0311	8.2500e-003	2.0000e-004	8.4500e-003		29.3641	29.3641	8.5000e-004	8.0000e-004	29.6245
Total	**0.0111**	**8.3700e-003**	**0.1084**	**2.9000e-004**	**0.0309**	**2.1000e-004**	**0.0311**	**8.2500e-003**	**2.0000e-004**	**8.4500e-003**		**29.3641**	**29.3641**	**8.5000e-004**	**8.0000e-004**	**29.6245**

Construction

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	0	No Change	0.00
Cranes	Diesel	No Change	0	0	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00

Construction

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Aerial Lifts	Diesel	No Change	0	6	No Change	0.00
Crawler Tractors	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Scrapers	Diesel	No Change	0	4	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Aerial Lifts	9.72000E-003	1.51040E-001	2.94910E-001	4.50000E-004	2.80000E-003	2.58000E-003	0.00000E+000	3.97689E+001	3.97689E+001	1.28600E-002	0.00000E+000	4.00904E+001
Air Compressors	2.15000E-003	1.47900E-002	1.90400E-002	3.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.68092E+000	2.68092E+000	1.70000E-004	0.00000E+000	2.68528E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Crawler Tractors	9.60000E-004	9.41000E-003	8.02000E-003	1.00000E-005	5.30000E-004	4.80000E-004	0.00000E+000	1.05148E+000	1.05148E+000	3.40000E-004	0.00000E+000	1.05998E+000
Excavators	5.20000E-003	4.22700E-002	4.31300E-002	2.00000E-004	1.42000E-003	1.31000E-003	0.00000E+000	1.73192E+001	1.73192E+001	5.60000E-003	0.00000E+000	1.74593E+001
Forklifts	3.29200E-002	2.99630E-001	3.86340E-001	5.90000E-004	1.60000E-002	1.47200E-002	0.00000E+000	5.17489E+001	5.17489E+001	1.67400E-002	0.00000E+000	5.21673E+001
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	4.37000E-003	5.53600E-002	1.81300E-002	7.00000E-005	1.76000E-003	1.62000E-003	0.00000E+000	6.12557E+000	6.12557E+000	1.98000E-003	0.00000E+000	6.17510E+000
Rollers	1.07000E-003	5.98000E-003	6.37000E-003	1.00000E-005	3.60000E-004	3.30000E-004	0.00000E+000	6.90380E-001	6.90380E-001	2.20000E-004	0.00000E+000	6.95960E-001
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Construction

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Scrapers	4.14000E-002	4.51950E-001	3.22200E-001	7.70000E-004	1.76400E-002	1.62300E-002	0.00000E+000	6.74038E+001	6.74038E+001	2.18000E-002	0.00000E+000	6.79488E+001
Skid Steer Loaders	1.54000E-003	2.05300E-002	3.06700E-002	5.00000E-005	7.60000E-004	7.00000E-004	0.00000E+000	4.01942E+000	4.01942E+000	1.30000E-003	0.00000E+000	4.05192E+000
Tractors/Loaders/Backhoes	7.05000E-003	7.16900E-002	9.57500E-002	1.30000E-004	3.86000E-003	3.55000E-003	0.00000E+000	1.16920E+001	1.16920E+001	3.78000E-003	0.00000E+000	1.17865E+001
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Aerial Lifts	9.72000E-003	1.51030E-001	2.94910E-001	4.50000E-004	2.80000E-003	2.58000E-003	0.00000E+000	3.97688E+001	3.97688E+001	1.28600E-002	0.00000E+000	4.00904E+001
Air Compressors	2.15000E-003	1.47900E-002	1.90400E-002	3.00000E-005	8.60000E-004	8.60000E-004	0.00000E+000	2.68091E+000	2.68091E+000	1.70000E-004	0.00000E+000	2.68528E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Crawler Tractors	9.60000E-004	9.41000E-003	8.02000E-003	1.00000E-005	5.30000E-004	4.80000E-004	0.00000E+000	1.05148E+000	1.05148E+000	3.40000E-004	0.00000E+000	1.05998E+000
Excavators	5.20000E-003	4.22700E-002	4.31300E-002	2.00000E-004	1.42000E-003	1.31000E-003	0.00000E+000	1.73192E+001	1.73192E+001	5.60000E-003	0.00000E+000	1.74593E+001
Forklifts	3.29200E-002	2.99630E-001	3.86340E-001	5.90000E-004	1.60000E-002	1.47200E-002	0.00000E+000	5.17488E+001	5.17488E+001	1.67400E-002	0.00000E+000	5.21672E+001
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	4.37000E-003	5.53600E-002	1.81300E-002	7.00000E-005	1.76000E-003	1.62000E-003	0.00000E+000	6.12557E+000	6.12557E+000	1.98000E-003	0.00000E+000	6.17510E+000
Rollers	1.07000E-003	5.98000E-003	6.37000E-003	1.00000E-005	3.60000E-004	3.30000E-004	0.00000E+000	6.90380E-001	6.90380E-001	2.20000E-004	0.00000E+000	6.95960E-001
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Scrapers	4.14000E-002	4.51950E-001	3.22190E-001	7.70000E-004	1.76400E-002	1.62300E-002	0.00000E+000	6.74037E+001	6.74037E+001	2.18000E-002	0.00000E+000	6.79487E+001
Skid Steer Loaders	1.54000E-003	2.05300E-002	3.06700E-002	5.00000E-005	7.60000E-004	7.00000E-004	0.00000E+000	4.01941E+000	4.01941E+000	1.30000E-003	0.00000E+000	4.05191E+000
Tractors/Loaders/Backhoes	7.05000E-003	7.16900E-002	9.57500E-002	1.30000E-004	3.86000E-003	3.55000E-003	0.00000E+000	1.16920E+001	1.16920E+001	3.78000E-003	0.00000E+000	1.17865E+001
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Construction

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	6.62076E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25727E-006	1.25727E-006	0.00000E+000	0.00000E+000	1.24718E-006
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.73006E-006	3.73006E-006	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Crawler Tractors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15479E-006	1.15479E-006	0.00000E+000	0.00000E+000	1.14552E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.35269E-006	1.35269E-006	0.00000E+000	0.00000E+000	1.15015E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Scrapers	0.00000E+000	0.00000E+000	3.10366E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18688E-006	1.18688E-006	0.00000E+000	0.00000E+000	1.17736E-006
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.48792E-006	2.48792E-006	0.00000E+000	0.00000E+000	2.46797E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.55289E-007	8.55289E-007	0.00000E+000	0.00000E+000	8.48428E-007
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Construction

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Vehicle Emission Factors -

Vehicle Emission Factors -

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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 -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblFleetMix	HHD	8.0220e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.7300e-003	5.8740e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

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

2.0 Emissions Summary

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	0.2667	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	75.9687	75.9687	4.7600e-003	6.3000e-004	76.2761
Mobile	0.0602	0.0599	0.6892	1.3700e-003	0.1411	1.0000e-003	0.1421	0.0375	9.2000e-004	0.0384	0.0000	125.8768	125.8768	7.4400e-003	4.4700e-003	127.3943
Waste						0.0000	0.0000		0.0000	0.0000	32.9901	0.0000	32.9901	1.9497	0.0000	81.7316
Water						0.0000	0.0000		0.0000	0.0000	0.1127	0.9785	1.0913	4.5000e-004	2.5000e-004	1.1779
Total	**0.3273**	**0.0631**	**0.6946**	**1.3900e-003**	**0.1411**	**1.2500e-003**	**0.1423**	**0.0375**	**1.1700e-003**	**0.0387**	**33.1028**	**202.8294**	**235.9322**	**1.9623**	**5.3500e-003**	**286.5855**

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	0.2667	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	75.9687	75.9687	4.7600e-003	6.3000e-004	76.2761
Mobile	0.0602	0.0599	0.6892	1.3700e-003	0.1411	1.0000e-003	0.1421	0.0375	9.2000e-004	0.0384	0.0000	125.8768	125.8768	7.4400e-003	4.4700e-003	127.3943
Waste						0.0000	0.0000		0.0000	0.0000	32.9901	0.0000	32.9901	1.9497	0.0000	81.7316
Water						0.0000	0.0000		0.0000	0.0000	0.1127	0.9785	1.0913	4.5000e-004	2.5000e-004	1.1779
Total	**0.3273**	**0.0631**	**0.6946**	**1.3900e-003**	**0.1411**	**1.2500e-003**	**0.1423**	**0.0375**	**1.1700e-003**	**0.0387**	**33.1028**	**202.8294**	**235.9322**	**1.9623**	**5.3500e-003**	**286.5855**

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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	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**

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	tons/yr										MT/yr					
Mitigated	0.0602	0.0599	0.6892	1.3700e-003	0.1411	1.0000e-003	0.1421	0.0375	9.2000e-004	0.0384	0.0000	125.8768	125.8768	7.4400e-003	4.4700e-003	127.3943
Unmitigated	0.0602	0.0599	0.6892	1.3700e-003	0.1411	1.0000e-003	0.1421	0.0375	9.2000e-004	0.0384	0.0000	125.8768	125.8768	7.4400e-003	4.4700e-003	127.3943

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,168	378,168
Total	88.24	88.24	88.24	378,168	378,168

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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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
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.562615	0.062423	0.190727	0.131078	0.023298	0.005874	0.000000	0.000000	0.000000	0.000000	0.023985	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	72.4882	72.4882	4.6900e-003	5.7000e-004	72.7749
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	72.4882	72.4882	4.6900e-003	5.7000e-004	72.7749
NaturalGas Mitigated	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
NaturalGas Unmitigated	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012

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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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	65221.5	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
Total		**3.5000e-004**	**3.2000e-003**	**2.6900e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.4805**	**3.4805**	**7.0000e-005**	**6.0000e-005**	**3.5012**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	65221.5	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
Total		**3.5000e-004**	**3.2000e-003**	**2.6900e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.4805**	**3.4805**	**7.0000e-005**	**6.0000e-005**	**3.5012**

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No Rail	286598	66.2968	4.2900e-003	5.2000e-004	66.5590
Total		**72.4882**	**4.6900e-003**	**5.7000e-004**	**72.7749**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No Rail	286598	66.2968	4.2900e-003	5.2000e-004	66.5590
Total		**72.4882**	**4.6900e-003**	**5.7000e-004**	**72.7749**

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.2667	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Unmitigated	0.2667	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003

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	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2667**	**3.0000e-005**	**2.7700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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

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	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2667**	**3.0000e-005**	**2.7700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.0913	4.5000e-004	2.5000e-004	1.1779
Unmitigated	1.0913	4.5000e-004	2.5000e-004	1.1779

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.318645 / 0.0073	1.0913	4.5000e-004	2.5000e-004	1.1779
Total		**1.0913**	**4.5000e-004**	**2.5000e-004**	**1.1779**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.318645 / 0.0073	1.0913	4.5000e-004	2.5000e-004	1.1779
Total		**1.0913**	**4.5000e-004**	**2.5000e-004**	**1.1779**

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.9901	1.9497	0.0000	81.7316
Unmitigated	32.9901	1.9497	0.0000	81.7316

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	162.52	32.9901	1.9497	0.0000	81.7316
Total		**32.9901**	**1.9497**	**0.0000**	**81.7316**

Existing Baseline_Main - Los Angeles-South Coast County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	162.52	32.9901	1.9497	0.0000	81.7316
Total		**32.9901**	**1.9497**	**0.0000**	**81.7316**

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

Existing Baseline_Main - Los Angeles-South Coast County, Summer

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

Existing Baseline_Main

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Vehicle Emission Factors -

Vehicle Emission Factors -

Existing Baseline_Main - Los Angeles-South Coast County, Summer

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

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblFleetMix	HHD	8.0220e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.7300e-003	5.8740e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

Existing Baseline_Main - Los Angeles-South Coast County, Summer

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

2.0 Emissions Summary

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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3406	0.2942	3.8835	7.8000e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		790.9500	790.9500	0.0441	0.0252	799.5545
Total	**1.8043**	**0.3120**	**3.9204**	**7.9100e-003**	**0.7906**	**6.8800e-003**	**0.7975**	**0.2098**	**6.4700e-003**	**0.2163**		**812.0195**	**812.0195**	**0.0446**	**0.0256**	**820.7521**

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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3406	0.2942	3.8835	7.8000e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		790.9500	790.9500	0.0441	0.0252	799.5545
Total	**1.8043**	**0.3120**	**3.9204**	**7.9100e-003**	**0.7906**	**6.8800e-003**	**0.7975**	**0.2098**	**6.4700e-003**	**0.2163**		**812.0195**	**812.0195**	**0.0446**	**0.0256**	**820.7521**

Existing Baseline_Main - Los Angeles-South Coast 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**

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	0.3406	0.2942	3.8835	7.8000e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		790.9500	790.9500	0.0441	0.0252	799.5545
Unmitigated	0.3406	0.2942	3.8835	7.8000e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		790.9500	790.9500	0.0441	0.0252	799.5545

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,168	378,168
Total	88.24	88.24	88.24	378,168	378,168

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Existing Baseline_Main - Los Angeles-South Coast 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
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.562615	0.062423	0.190727	0.131078	0.023298	0.005874	0.000000	0.000000	0.000000	0.000000	0.023985	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
NaturalGas Unmitigated	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	178.689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

Existing Baseline_Main - Los Angeles-South Coast County, Summer

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.178689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Unmitigated	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504

Existing Baseline_Main - Los Angeles-South Coast 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

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	lb/day										lb/day					
Architectural Coating	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.4619**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

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	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.4619**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

Existing Baseline_Main - Los Angeles-South Coast County, Summer

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing Baseline_Main - Los Angeles-South Coast County, Winter

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

Existing Baseline_Main

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Vehicle Emission Factors -

Vehicle Emission Factors -

Existing Baseline_Main - Los Angeles-South Coast County, Winter

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

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblFleetMix	HHD	8.0220e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.7300e-003	5.8740e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

Existing Baseline_Main - Los Angeles-South Coast County, Winter

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

2.0 Emissions Summary

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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3360	0.3226	3.7376	7.4300e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		753.1571	753.1571	0.0453	0.0268	762.2612
Total	**1.7998**	**0.3403**	**3.7745**	**7.5400e-003**	**0.7906**	**6.8800e-003**	**0.7975**	**0.2098**	**6.4700e-003**	**0.2163**		**774.2266**	**774.2266**	**0.0458**	**0.0271**	**783.4588**

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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3360	0.3226	3.7376	7.4300e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		753.1571	753.1571	0.0453	0.0268	762.2612
Total	**1.7998**	**0.3403**	**3.7745**	**7.5400e-003**	**0.7906**	**6.8800e-003**	**0.7975**	**0.2098**	**6.4700e-003**	**0.2163**		**774.2266**	**774.2266**	**0.0458**	**0.0271**	**783.4588**

Existing Baseline_Main - Los Angeles-South Coast 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**

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	0.3360	0.3226	3.7376	7.4300e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		753.1571	753.1571	0.0453	0.0268	762.2612
Unmitigated	0.3360	0.3226	3.7376	7.4300e-003	0.7906	5.4700e-003	0.7961	0.2098	5.0600e-003	0.2149		753.1571	753.1571	0.0453	0.0268	762.2612

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,168	378,168
Total	88.24	88.24	88.24	378,168	378,168

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Existing Baseline_Main - Los Angeles-South Coast 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
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.562615	0.062423	0.190727	0.131078	0.023298	0.005874	0.000000	0.000000	0.000000	0.000000	0.023985	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
NaturalGas Unmitigated	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	178.689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

Existing Baseline_Main - Los Angeles-South Coast County, Winter

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.178689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Unmitigated	1.4619	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504

Existing Baseline_Main - Los Angeles-South Coast 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

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	lb/day										lb/day					
Architectural Coating	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.4619**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

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	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.4619**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

Existing Baseline_Main - Los Angeles-South Coast County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

Existing Baseline_Trucks

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0220e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.7300e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	0.2372	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Mobile	0.0459	1.1824	0.2837	4.3800e-003	0.1461	0.0196	0.1657	0.0421	0.0188	0.0609	0.0000	426.0077	426.0077	0.0144	0.0610	444.5559
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2830**	**1.1824**	**0.2865**	**4.3800e-003**	**0.1461**	**0.0196**	**0.1657**	**0.0421**	**0.0188**	**0.0609**	**0.0000**	**432.2044**	**432.2044**	**0.0148**	**0.0611**	**450.7775**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

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	0.2372	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Mobile	0.0459	1.1824	0.2837	4.3800e-003	0.1461	0.0196	0.1657	0.0421	0.0188	0.0609	0.0000	426.0077	426.0077	0.0144	0.0610	444.5559
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2830**	**1.1824**	**0.2865**	**4.3800e-003**	**0.1461**	**0.0196**	**0.1657**	**0.0421**	**0.0188**	**0.0609**	**0.0000**	**432.2044**	**432.2044**	**0.0148**	**0.0611**	**450.7775**

	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**

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	tons/yr										MT/yr					
Mitigated	0.0459	1.1824	0.2837	4.3800e-003	0.1461	0.0196	0.1657	0.0421	0.0188	0.0609	0.0000	426.0077	426.0077	0.0144	0.0610	444.5559
Unmitigated	0.0459	1.1824	0.2837	4.3800e-003	0.1461	0.0196	0.1657	0.0421	0.0188	0.0609	0.0000	426.0077	426.0077	0.0144	0.0610	444.5559

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,294	321,294
Total	22.06	22.06	22.06	321,294	321,294

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

NaturalGas Mitigated	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
NaturalGas Unmitigated	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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**6.1914**	**4.0000e-004**	**5.0000e-005**	**6.2159**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**6.1914**	**4.0000e-004**	**5.0000e-005**	**6.2159**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.2372	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Unmitigated	0.2372	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2372**	**3.0000e-005**	**2.7700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2372**	**3.0000e-005**	**2.7700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Existing Baseline_Trucks - Los Angeles-South Coast County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

Existing Baseline_Trucks

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0220e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.7300e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	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
Mobile	0.2524	6.1536	1.5614	0.0241	0.8160	0.1078	0.9238	0.2346	0.1031	0.3377		2,583.2606	2,583.2606	0.0876	0.3697	2,695.6112
Total	**1.5527**	**6.1538**	**1.5836**	**0.0241**	**0.8160**	**0.1079**	**0.9239**	**0.2346**	**0.1032**	**0.3378**		**2,583.3079**	**2,583.3079**	**0.0877**	**0.3697**	**2,695.6617**

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	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
Mobile	0.2524	6.1536	1.5614	0.0241	0.8160	0.1078	0.9238	0.2346	0.1031	0.3377		2,583.2606	2,583.2606	0.0876	0.3697	2,695.6112
Total	**1.5527**	**6.1538**	**1.5836**	**0.0241**	**0.8160**	**0.1079**	**0.9239**	**0.2346**	**0.1032**	**0.3378**		**2,583.3079**	**2,583.3079**	**0.0877**	**0.3697**	**2,695.6617**

	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**

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	0.2524	6.1536	1.5614	0.0241	0.8160	0.1078	0.9238	0.2346	0.1031	0.3377		2,583.2606	2,583.2606	0.0876	0.3697	2,695.6112
Unmitigated	0.2524	6.1536	1.5614	0.0241	0.8160	0.1078	0.9238	0.2346	0.1031	0.3377		2,583.2606	2,583.2606	0.0876	0.3697	2,695.6112

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,294	321,294
Total	22.06	22.06	22.06	321,294	321,294

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

Existing Baseline_Trucks - Los Angeles-South Coast 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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Unmitigated	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

Existing Baseline_Trucks - Los Angeles-South Coast County, Summer

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

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-**	**8.0000e-005**		**8.0000e-**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-**		**0.0504**

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

Existing Baseline_Trucks

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0220e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.7300e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.4250e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.5600e-004	0.00
tblFleetMix	SBUS	6.8600e-004	0.00
tblFleetMix	UBUS	6.2400e-004	0.00
tblLandUse	LandUseSquareFeet	62,710.00	62,713.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,410.00	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	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
Mobile	0.2512	6.3989	1.5667	0.0241	0.8160	0.1079	0.9239	0.2346	0.1032	0.3378		2,583.2581	2,583.2581	0.0875	0.3700	2,695.7081
Total	**1.5515**	**6.3991**	**1.5888**	**0.0241**	**0.8160**	**0.1079**	**0.9240**	**0.2346**	**0.1033**	**0.3379**		**2,583.3054**	**2,583.3054**	**0.0876**	**0.3700**	**2,695.7585**

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Energy	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
Mobile	0.2512	6.3989	1.5667	0.0241	0.8160	0.1079	0.9239	0.2346	0.1032	0.3378		2,583.2581	2,583.2581	0.0875	0.3700	2,695.7081
Total	**1.5515**	**6.3991**	**1.5888**	**0.0241**	**0.8160**	**0.1079**	**0.9240**	**0.2346**	**0.1033**	**0.3379**		**2,583.3054**	**2,583.3054**	**0.0876**	**0.3700**	**2,695.7585**

	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**

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	0.2512	6.3989	1.5667	0.0241	0.8160	0.1079	0.9239	0.2346	0.1032	0.3378		2,583.2581	2,583.2581	0.0875	0.3700	2,695.7081
Unmitigated	0.2512	6.3989	1.5667	0.0241	0.8160	0.1079	0.9239	0.2346	0.1032	0.3378		2,583.2581	2,583.2581	0.0875	0.3700	2,695.7081

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,294	321,294
Total	22.06	22.06	22.06	321,294	321,294

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Other Non-Asphalt Surfaces	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

Existing Baseline_Trucks - Los Angeles-South Coast 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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Unmitigated	1.3003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-004**		**0.0504**

Existing Baseline_Trucks - Los Angeles-South Coast County, Winter

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

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0222	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.3000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0222**	**0.0000**		**8.0000e-**	**8.0000e-005**		**8.0000e-**	**8.0000e-005**		**0.0473**	**0.0473**	**1.3000e-**		**0.0504**

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing_Main - Los Angeles-South Coast County, Annual

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

Existing_Main

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Existing_Main - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblEnergyUse	LightingElect	0.88	0.88
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

Existing_Main - Los Angeles-South Coast County, Annual

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

2.0 Emissions Summary

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	0.2667	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	75.9406	75.9406	4.7600e-003	6.3000e-004	76.2478
Mobile	0.0577	0.0542	0.6469	1.3300e-003	0.1411	9.4000e-004	0.1420	0.0375	8.7000e-004	0.0384	0.0000	122.5073	122.5073	7.1000e-003	4.2100e-003	123.9408
Waste						0.0000	0.0000		0.0000	0.0000	32.9901	0.0000	32.9901	1.9497	0.0000	81.7316
Water						0.0000	0.0000		0.0000	0.0000	0.1127	0.9785	1.0913	4.5000e-004	2.5000e-004	1.1779
Total	**0.3247**	**0.0574**	**0.6524**	**1.3500e-003**	**0.1411**	**1.1900e-003**	**0.1423**	**0.0375**	**1.1200e-003**	**0.0386**	**33.1028**	**199.4317**	**232.5346**	**1.9620**	**5.0900e-003**	**283.1038**

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	0.2667	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	75.9406	75.9406	4.7600e-003	6.3000e-004	76.2478
Mobile	0.0577	0.0542	0.6469	1.3300e-003	0.1411	9.4000e-004	0.1420	0.0375	8.7000e-004	0.0384	0.0000	122.5073	122.5073	7.1000e-003	4.2100e-003	123.9408
Waste						0.0000	0.0000		0.0000	0.0000	32.9901	0.0000	32.9901	1.9497	0.0000	81.7316
Water						0.0000	0.0000		0.0000	0.0000	0.1127	0.9785	1.0913	4.5000e-004	2.5000e-004	1.1779
Total	**0.3247**	**0.0574**	**0.6524**	**1.3500e-003**	**0.1411**	**1.1900e-003**	**0.1423**	**0.0375**	**1.1200e-003**	**0.0386**	**33.1028**	**199.4317**	**232.5346**	**1.9620**	**5.0900e-003**	**283.1038**

Existing_Main - Los Angeles-South Coast County, Annual

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

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	tons/yr										MT/yr					
Mitigated	0.0577	0.0542	0.6469	1.3300e-003	0.1411	9.4000e-004	0.1420	0.0375	8.7000e-004	0.0384	0.0000	122.5073	122.5073	7.1000e-003	4.2100e-003	123.9408
Unmitigated	0.0577	0.0542	0.6469	1.3300e-003	0.1411	9.4000e-004	0.1420	0.0375	8.7000e-004	0.0384	0.0000	122.5073	122.5073	7.1000e-003	4.2100e-003	123.9408

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,186	378,186
Total	88.24	88.24	88.24	378,186	378,186

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Existing_Main - Los Angeles-South Coast County, Annual

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
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	72.4601	72.4601	4.6900e-003	5.7000e-004	72.7467
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	72.4601	72.4601	4.6900e-003	5.7000e-004	72.7467
NaturalGas Mitigated	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
NaturalGas Unmitigated	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012

Existing_Main - Los Angeles-South Coast County, Annual

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	65221.5	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
Total		**3.5000e-004**	**3.2000e-003**	**2.6900e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.4805**	**3.4805**	**7.0000e-005**	**6.0000e-005**	**3.5012**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	65221.5	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.4805	3.4805	7.0000e-005	6.0000e-005	3.5012
Total		**3.5000e-004**	**3.2000e-003**	**2.6900e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**3.4805**	**3.4805**	**7.0000e-005**	**6.0000e-005**	**3.5012**

Existing_Main - Los Angeles-South Coast County, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26643.5	6.1633	4.0000e-004	5.0000e-005	6.1876
Unrefrigerated Warehouse-No Rail	286598	66.2968	4.2900e-003	5.2000e-004	66.5590
Total		**72.4601**	**4.6900e-003**	**5.7000e-004**	**72.7467**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26643.5	6.1633	4.0000e-004	5.0000e-005	6.1876
Unrefrigerated Warehouse-No Rail	286598	66.2968	4.2900e-003	5.2000e-004	66.5590
Total		**72.4601**	**4.6900e-003**	**5.7000e-004**	**72.7467**

Existing_Main - Los Angeles-South Coast County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.2667	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Unmitigated	0.2667	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003

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	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2667**	**3.0000e-005**	**2.7600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

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

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	0.0295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2667**	**3.0000e-005**	**2.7600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.0913	4.5000e-004	2.5000e-004	1.1779
Unmitigated	1.0913	4.5000e-004	2.5000e-004	1.1779

Existing_Main - Los Angeles-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.318645 / 0.0073	1.0913	4.5000e-004	2.5000e-004	1.1779
Total		**1.0913**	**4.5000e-004**	**2.5000e-004**	**1.1779**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.318645 / 0.0073	1.0913	4.5000e-004	2.5000e-004	1.1779
Total		**1.0913**	**4.5000e-004**	**2.5000e-004**	**1.1779**

Existing_Main - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.9901	1.9497	0.0000	81.7316
Unmitigated	32.9901	1.9497	0.0000	81.7316

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	162.52	32.9901	1.9497	0.0000	81.7316
Total		**32.9901**	**1.9497**	**0.0000**	**81.7316**

Existing_Main - Los Angeles-South Coast County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	162.52	32.9901	1.9497	0.0000	81.7316
Total		**32.9901**	**1.9497**	**0.0000**	**81.7316**

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

Existing_Main - Los Angeles-South Coast County, Summer

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

Existing_Main

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Existing_Main - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblEnergyUse	LightingElect	0.88	0.88
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

Existing_Main - Los Angeles-South Coast County, Summer

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

2.0 Emissions Summary

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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3261	0.2664	3.6389	7.5600e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		769.6147	769.6147	0.0421	0.0238	777.7519
Total	**1.7899**	**0.2841**	**3.6757**	**7.6700e-003**	**0.7907**	**6.5800e-003**	**0.7973**	**0.2098**	**6.1900e-003**	**0.2160**		**790.6842**	**790.6842**	**0.0426**	**0.0242**	**798.9495**

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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3261	0.2664	3.6389	7.5600e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		769.6147	769.6147	0.0421	0.0238	777.7519
Total	**1.7899**	**0.2841**	**3.6757**	**7.6700e-003**	**0.7907**	**6.5800e-003**	**0.7973**	**0.2098**	**6.1900e-003**	**0.2160**		**790.6842**	**790.6842**	**0.0426**	**0.0242**	**798.9495**

	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**

Existing_Main - Los Angeles-South Coast 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	0.3261	0.2664	3.6389	7.5600e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		769.6147	769.6147	0.0421	0.0238	777.7519
Unmitigated	0.3261	0.2664	3.6389	7.5600e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		769.6147	769.6147	0.0421	0.0238	777.7519

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,186	378,186
Total	88.24	88.24	88.24	378,186	378,186

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

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

5.0 Energy Detail

Historical Energy Use: Y

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	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
NaturalGas Unmitigated	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	178.689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

Existing_Main - Los Angeles-South Coast County, Summer

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.178689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Unmitigated	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504

Existing_Main - Los Angeles-South Coast 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

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	lb/day										lb/day					
Architectural Coating	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.4618**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

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	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.4618**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

Existing_Main - Los Angeles-South Coast County, Summer

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing_Main - Los Angeles-South Coast County, Winter

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

Existing_Main

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossroads. See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Based on parking lot only. See assumptions in AQ/GHG appendix for details.

Energy Use -

Water And Wastewater - See assumptions in AQ/GHG appendix for details.

Solid Waste - See assumptions in AQ/GHG appendix for details.

Existing_Main - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9567	1825
tblEnergyUse	LightingElect	0.88	0.88
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	162.52
tblVehicleTrips	ST_TR	1.74	1.41
tblVehicleTrips	SU_TR	1.74	1.41
tblVehicleTrips	WD_TR	1.74	1.41
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	318,645.00
tblWater	OutdoorWaterUseRate	0.00	7,300.00
tblWater	SepticTankPercent	10.33	0.00

Existing_Main - Los Angeles-South Coast County, Winter

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

2.0 Emissions Summary

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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3217	0.2921	3.5107	7.2000e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		733.0573	733.0573	0.0432	0.0253	741.6609
Total	**1.7855**	**0.3099**	**3.5475**	**7.3100e-003**	**0.7907**	**6.5800e-003**	**0.7973**	**0.2098**	**6.1900e-003**	**0.2160**		**754.1268**	**754.1268**	**0.0437**	**0.0256**	**762.8585**

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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Mobile	0.3217	0.2921	3.5107	7.2000e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		733.0573	733.0573	0.0432	0.0253	741.6609
Total	**1.7855**	**0.3099**	**3.5475**	**7.3100e-003**	**0.7907**	**6.5800e-003**	**0.7973**	**0.2098**	**6.1900e-003**	**0.2160**		**754.1268**	**754.1268**	**0.0437**	**0.0256**	**762.8585**

	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**

Existing_Main - Los Angeles-South Coast 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	0.3217	0.2921	3.5107	7.2000e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		733.0573	733.0573	0.0432	0.0253	741.6609
Unmitigated	0.3217	0.2921	3.5107	7.2000e-003	0.7907	5.1700e-003	0.7959	0.2098	4.7800e-003	0.2146		733.0573	733.0573	0.0432	0.0253	741.6609

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	88.24	88.24	88.24	378,186	378,186
Total	88.24	88.24	88.24	378,186	378,186

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

Existing_Main - Los Angeles-South Coast County, Winter

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

5.0 Energy Detail

Historical Energy Use: Y

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	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
NaturalGas Unmitigated	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	178.689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

Existing_Main - Los Angeles-South Coast County, Winter

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.178689	1.9300e-003	0.0175	0.0147	1.1000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003		21.0223	21.0223	4.0000e-004	3.9000e-004	21.1472
Total		**1.9300e-003**	**0.0175**	**0.0147**	**1.1000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**		**21.0223**	**21.0223**	**4.0000e-004**	**3.9000e-004**	**21.1472**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Unmitigated	1.4618	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504

Existing_Main - Los Angeles-South Coast 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

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	lb/day										lb/day					
Architectural Coating	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.4618**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

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	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.4618**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

Existing_Main - Los Angeles-South Coast County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing_Trucks - Los Angeles-South Coast County, Annual

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

Existing_Trucks

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Existing_Trucks - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0320e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00

Existing_Trucks - Los Angeles-South Coast County, Annual

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

tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	0.2372	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Mobile	0.0281	0.9658	0.2211	4.2400e-003	0.1461	0.0106	0.1567	0.0421	0.0101	0.0523	0.0000	413.7921	413.7921	0.0138	0.0593	431.7933
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2653**	**0.9658**	**0.2239**	**4.2400e-003**	**0.1461**	**0.0106**	**0.1567**	**0.0421**	**0.0102**	**0.0523**	**0.0000**	**419.9889**	**419.9889**	**0.0142**	**0.0593**	**438.0149**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

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	0.2372	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Mobile	0.0281	0.9658	0.2211	4.2400e-003	0.1461	0.0106	0.1567	0.0421	0.0101	0.0523	0.0000	413.7921	413.7921	0.0138	0.0593	431.7933
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2653**	**0.9658**	**0.2239**	**4.2400e-003**	**0.1461**	**0.0106**	**0.1567**	**0.0421**	**0.0102**	**0.0523**	**0.0000**	**419.9889**	**419.9889**	**0.0142**	**0.0593**	**438.0149**

	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**

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	tons/yr										MT/yr					
Mitigated	0.0281	0.9658	0.2211	4.2400e-003	0.1461	0.0106	0.1567	0.0421	0.0101	0.0523	0.0000	413.7921	413.7921	0.0138	0.0593	431.7933
Unmitigated	0.0281	0.9658	0.2211	4.2400e-003	0.1461	0.0106	0.1567	0.0421	0.0101	0.0523	0.0000	413.7921	413.7921	0.0138	0.0593	431.7933

Existing_Trucks - Los Angeles-South Coast County, Annual

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,309	321,309
Total	22.06	22.06	22.06	321,309	321,309

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

Existing_Trucks - Los Angeles-South Coast County, Annual

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

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.1914	6.1914	4.0000e-004	5.0000e-005	6.2159
NaturalGas Mitigated	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
NaturalGas Unmitigated	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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000
Total		**6.1914**	**4.0000e-004**	**5.0000e-005**	**6.2159**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26765.2	6.1914	4.0000e-004	5.0000e-005	6.2159
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**6.1914**	**4.0000e-004**	**5.0000e-005**	**6.2159**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.2372	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Unmitigated	0.2372	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003

Existing_Trucks - Los Angeles-South Coast County, Annual

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

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2372**	**3.0000e-005**	**2.7600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3600e-003	5.3600e-003	1.0000e-005	0.0000	5.7200e-003
Total	**0.2372**	**3.0000e-005**	**2.7600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**1.0000e-005**	**0.0000**	**5.7200e-003**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Existing_Trucks - Los Angeles-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Existing_Trucks - Los Angeles-South Coast County, Annual

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

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

Existing_Trucks - Los Angeles-South Coast County, Summer

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

Existing_Trucks

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Existing_Trucks - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0320e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00

Existing_Trucks - Los Angeles-South Coast County, Summer

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

tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	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
Mobile	0.1550	5.0278	1.2161	0.0234	0.8161	0.0583	0.8744	0.2346	0.0558	0.2904		2,509.1168	2,509.1168	0.0836	0.3589	2,618.1635
Total	**1.4552**	**5.0280**	**1.2382**	**0.0234**	**0.8161**	**0.0584**	**0.8745**	**0.2346**	**0.0559**	**0.2905**		**2,509.1641**	**2,509.1641**	**0.0838**	**0.3589**	**2,618.2139**

Existing_Trucks - Los Angeles-South Coast County, Summer

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

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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	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
Mobile	0.1550	5.0278	1.2161	0.0234	0.8161	0.0583	0.8744	0.2346	0.0558	0.2904		2,509.1168	2,509.1168	0.0836	0.3589	2,618.1635
Total	**1.4552**	**5.0280**	**1.2382**	**0.0234**	**0.8161**	**0.0584**	**0.8745**	**0.2346**	**0.0559**	**0.2905**		**2,509.1641**	**2,509.1641**	**0.0838**	**0.3589**	**2,618.2139**

	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**

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	0.1550	5.0278	1.2161	0.0234	0.8161	0.0583	0.8744	0.2346	0.0558	0.2904		2,509.1168	2,509.1168	0.0836	0.3589	2,618.1635
Unmitigated	0.1550	5.0278	1.2161	0.0234	0.8161	0.0583	0.8744	0.2346	0.0558	0.2904		2,509.1168	2,509.1168	0.0836	0.3589	2,618.1635

Existing_Trucks - Los Angeles-South Coast County, Summer

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,309	321,309
Total	22.06	22.06	22.06	321,309	321,309

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

Existing_Trucks - Los Angeles-South Coast 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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	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
Total		**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**

Existing_Trucks - Los Angeles-South Coast County, Summer

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Unmitigated	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

Existing_Trucks - Los Angeles-South Coast County, Summer

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

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

7.0 Water Detail

7.1 Mitigation Measures Water

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

Existing_Trucks - Los Angeles-South Coast County, Summer

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

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

Existing_Trucks - Los Angeles-South Coast County, Winter

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

Existing_Trucks

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	62.71	1000sqft	1.44	62,713.00	0
Parking Lot	116.00	Space	0.70	30,415.00	0
Other Asphalt Surfaces	2.96	Acre	2.96	129,028.00	0
Other Non-Asphalt Surfaces	34.41	1000sqft	0.79	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity factor 512 lbs/MWh per SCE 2020 Sustainability Report. See assumptions file in AQ/GHG appendix for details.

Land Use - Based on existing uses and project description. See assumptions file in AQ/GHG appendix.

Construction Phase -

Vehicle Trips - See assumptions in AQ/GHG appendix for details.

Fleet Mix - See assumptions in AQ/GHG appendix for details.

Area Coating - Modeling mobile-source emissions only.

Energy Use - Modeling mobile-source emissions only.

Water And Wastewater - Modeling mobile-source emissions only.

Solid Waste - Modeling mobile-source emissions only.

Existing_Trucks - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	31357	0
tblAreaCoating	Area_Nonresidential_Interior	94070	0
tblAreaCoating	Area_Parking	9567	0
tblEnergyUse	LightingElect	2.38	0.00
tblEnergyUse	NT24E	1.34	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.85	0.00
tblEnergyUse	T24NG	1.01	0.00
tblFleetMix	HHD	8.0320e-003	0.50
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.50
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	46,400.00	30,415.00
tblLandUse	LandUseSquareFeet	128,937.60	129,028.00
tblLandUse	LandUseSquareFeet	34,412.00	0.00
tblLandUse	LotAcreage	1.04	0.70
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	58.95	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Existing_Trucks - Los Angeles-South Coast County, Winter

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

tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.74	0.35
tblVehicleTrips	SU_TR	1.74	0.35
tblVehicleTrips	WD_TR	1.74	0.35
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	14,501,687.50	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	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
Mobile	0.1536	5.2300	1.2221	0.0234	0.8161	0.0584	0.8744	0.2346	0.0558	0.2905		2,509.2794	2,509.2794	0.0835	0.3592	2,618.4190
Total	**1.4539**	**5.2302**	**1.2442**	**0.0234**	**0.8161**	**0.0584**	**0.8745**	**0.2346**	**0.0559**	**0.2905**		**2,509.3267**	**2,509.3267**	**0.0837**	**0.3592**	**2,618.4694**

Existing_Trucks - Los Angeles-South Coast County, Winter

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

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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Energy	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
Mobile	0.1536	5.2300	1.2221	0.0234	0.8161	0.0584	0.8744	0.2346	0.0558	0.2905		2,509.2794	2,509.2794	0.0835	0.3592	2,618.4190
Total	**1.4539**	**5.2302**	**1.2442**	**0.0234**	**0.8161**	**0.0584**	**0.8745**	**0.2346**	**0.0559**	**0.2905**		**2,509.3267**	**2,509.3267**	**0.0837**	**0.3592**	**2,618.4694**

	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**

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	0.1536	5.2300	1.2221	0.0234	0.8161	0.0584	0.8744	0.2346	0.0558	0.2905		2,509.2794	2,509.2794	0.0835	0.3592	2,618.4190
Unmitigated	0.1536	5.2300	1.2221	0.0234	0.8161	0.0584	0.8744	0.2346	0.0558	0.2905		2,509.2794	2,509.2794	0.0835	0.3592	2,618.4190

Existing_Trucks - Los Angeles-South Coast County, Winter

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	22.06	22.06	22.06	321,309	321,309
Total	22.06	22.06	22.06	321,309	321,309

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

Existing_Trucks - Los Angeles-South Coast County, Winter

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

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

Existing_Trucks - Los Angeles-South Coast County, Winter

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

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					
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	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
Total		**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**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Unmitigated	1.3003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504

Existing_Trucks - Los Angeles-South Coast 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

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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0600e-003	2.0000e-004	0.0221	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0473	0.0473	1.2000e-004		0.0504
Total	**1.3003**	**2.0000e-004**	**0.0221**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0473**	**0.0473**	**1.2000e-004**		**0.0504**

Existing_Trucks - Los Angeles-South Coast County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

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

Operation - Main - Los Angeles-South Coast County, Annual

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

Operation - Main

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix.

Solid Waste - See assumptions file in the AQ/GHG appendix.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Area Coating - .

Operation - Main - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,980.00	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LotAcreage	2.59	2.49

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

tblLandUse	LotAcreage	1.11	0.46
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	44.06
tblSolidWaste	SolidWasteGenerationRate	106.06	278.69
tblVehicleTrips	ST_TR	6.42	2.93
tblVehicleTrips	ST_TR	1.74	1.31
tblVehicleTrips	SU_TR	5.09	2.93
tblVehicleTrips	SU_TR	1.74	1.31
tblVehicleTrips	WD_TR	3.93	2.93
tblVehicleTrips	WD_TR	1.74	1.31
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,931,250.00	155,855.00
tblWater	IndoorWaterUseRate	26,091,937.50	155,855.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

Operation - Main - Los Angeles-South Coast County, Annual

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

2.0 Emissions Summary

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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	165.7766	165.7766	9.7500e-003	1.5300e-003	166.4749
Mobile	0.1298	0.1222	1.4586	2.9900e-003	0.3185	2.1200e-003	0.3206	0.0846	1.9600e-003	0.0866	0.0000	276.4983	276.4983	0.0160	9.5000e-003	279.7283
Waste						0.0000	0.0000		0.0000	0.0000	65.5153	0.0000	65.5153	3.8719	0.0000	162.3115
Water						0.0000	0.0000		0.0000	0.0000	0.1103	1.4689	1.5792	4.7000e-004	2.5000e-004	1.6659
Total	**0.6702**	**0.1419**	**1.4788**	**3.1100e-003**	**0.3185**	**3.6300e-003**	**0.3221**	**0.0846**	**3.4700e-003**	**0.0881**	**65.6256**	**443.7507**	**509.3763**	**3.8981**	**0.0113**	**610.1881**

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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	165.7766	165.7766	9.7500e-003	1.5300e-003	166.4749
Mobile	0.1298	0.1222	1.4586	2.9900e-003	0.3185	2.1200e-003	0.3206	0.0846	1.9600e-003	0.0866	0.0000	276.4983	276.4983	0.0160	9.5000e-003	279.7283
Waste						0.0000	0.0000		0.0000	0.0000	65.5153	0.0000	65.5153	3.8719	0.0000	162.3115
Water						0.0000	0.0000		0.0000	0.0000	0.1103	1.4689	1.5792	4.7000e-004	2.5000e-004	1.6659
Total	**0.6702**	**0.1419**	**1.4788**	**3.1100e-003**	**0.3185**	**3.6300e-003**	**0.3221**	**0.0846**	**3.4700e-003**	**0.0881**	**65.6256**	**443.7507**	**509.3763**	**3.8981**	**0.0113**	**610.1881**

Operation - Main - Los Angeles-South Coast County, Annual

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

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	tons/yr										MT/yr					
Mitigated	0.1298	0.1222	1.4586	2.9900e-003	0.3185	2.1200e-003	0.3206	0.0846	1.9600e-003	0.0866	0.0000	276.4983	276.4983	0.0160	9.5000e-003	279.7283
Unmitigated	0.1298	0.1222	1.4586	2.9900e-003	0.3185	2.1200e-003	0.3206	0.0846	1.9600e-003	0.0866	0.0000	276.4983	276.4983	0.0160	9.5000e-003	279.7283

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	49.76	49.76	49.76	220,362	220,362
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	147.77	147.77	147.77	633,315	633,315
Total	197.54	197.54	197.54	853,677	853,677

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Operation - Main - Los Angeles-South Coast County, Annual

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
Manufacturing	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

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	0.0000	144.3054	144.3054	9.3400e-003	1.1300e-003	144.8762
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	144.3054	144.3054	9.3400e-003	1.1300e-003	144.8762
NaturalGas Mitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4711	21.4711	4.1000e-004	3.9000e-004	21.5987
NaturalGas Unmitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4711	21.4711	4.1000e-004	3.9000e-004	21.5987

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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					
Manufacturing	305320	1.6500e-003	0.0150	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.2930	16.2930	3.1000e-004	3.0000e-004	16.3899
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	97033.8	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1781	5.1781	1.0000e-004	9.0000e-005	5.2089
Total		**2.1700e-003**	**0.0197**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**21.4711**	**21.4711**	**4.1000e-004**	**3.9000e-004**	**21.5987**

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					
Manufacturing	305320	1.6500e-003	0.0150	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.2930	16.2930	3.1000e-004	3.0000e-004	16.3899
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	97033.8	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1781	5.1781	1.0000e-004	9.0000e-005	5.2089
Total		**2.1700e-003**	**0.0197**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**21.4711**	**21.4711**	**4.1000e-004**	**3.9000e-004**	**21.5987**

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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			
Manufacturing	184620	42.7069	2.7600e-003	3.3000e-004	42.8758
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7067.55	1.6349	1.1000e-004	1.0000e-005	1.6414
Unrefrigerated Warehouse-No Rail	432139	99.9637	6.4700e-003	7.8000e-004	100.3590
Total		**144.3054**	**9.3400e-003**	**1.1200e-003**	**144.8762**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	184620	42.7069	2.7600e-003	3.3000e-004	42.8758
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7067.55	1.6349	1.1000e-004	1.0000e-005	1.6414
Unrefrigerated Warehouse-No Rail	432139	99.9637	6.4700e-003	7.8000e-004	100.3590
Total		**144.3054**	**9.3400e-003**	**1.1200e-003**	**144.8762**

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Unmitigated	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003

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	0.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Total	**0.5382**	**3.0000e-005**	**3.6200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.0200e-003**	**7.0200e-003**	**2.0000e-005**	**0.0000**	**7.4800e-003**

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

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	0.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Total	**0.5382**	**3.0000e-005**	**3.6200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.0200e-003**	**7.0200e-003**	**2.0000e-005**	**0.0000**	**7.4800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5792	4.7000e-004	2.5000e-004	1.6659
Unmitigated	1.5792	4.7000e-004	2.5000e-004	1.6659

7.2 Water by Land Use

Operation - Main - Los Angeles-South Coast County, Annual

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

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.155855 / 0.103113	0.7896	2.4000e-004	1.3000e-004	0.8330
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0.155855 / 0.103113	0.7896	2.4000e-004	1.3000e-004	0.8330
Total		**1.5792**	**4.8000e-004**	**2.6000e-004**	**1.6659**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.155855 / 0.103113	0.7896	2.4000e-004	1.3000e-004	0.8330
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0.155855 / 0.103113	0.7896	2.4000e-004	1.3000e-004	0.8330
Total		**1.5792**	**4.8000e-004**	**2.6000e-004**	**1.6659**

Operation - Main - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	65.5153	3.8719	0.0000	162.3115
Unmitigated	65.5153	3.8719	0.0000	162.3115

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	44.06	8.9438	0.5286	0.0000	22.1578
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.69	56.5716	3.3433	0.0000	140.1536
Total		**65.5153**	**3.8718**	**0.0000**	**162.3115**

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	44.06	8.9438	0.5286	0.0000	22.1578
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.69	56.5716	3.3433	0.0000	140.1536
Total		**65.5153**	**3.8718**	**0.0000**	**162.3115**

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

Operation - Main - Los Angeles-South Coast County, Summer

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

Operation - Main

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix.

Solid Waste - See assumptions file in the AQ/GHG appendix.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Area Coating - .

Table Name	Column Name	Default Value	New Value

Operation - Main - Los Angeles-South Coast County, Summer

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

tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,980.00	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46

Operation - Main - Los Angeles-South Coast County, Summer

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

tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	44.06
tblSolidWaste	SolidWasteGenerationRate	106.06	278.69
tblVehicleTrips	ST_TR	6.42	2.93
tblVehicleTrips	ST_TR	1.74	1.31
tblVehicleTrips	SU_TR	5.09	2.93
tblVehicleTrips	SU_TR	1.74	1.31
tblVehicleTrips	WD_TR	3.93	2.93
tblVehicleTrips	WD_TR	1.74	1.31
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,931,250.00	155,855.00
tblWater	IndoorWaterUseRate	26,091,937.50	155,855.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

Operation - Main - Los Angeles-South Coast County, Summer

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

2.0 Emissions Summary

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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.7336	0.6006	8.2062	0.0171	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,737.0265	1,737.0265	0.0947	0.0536	1,755.3608
Total	**3.6953**	**0.7089**	**8.3259**	**0.0177**	**1.7848**	**0.0200**	**1.8048**	**0.4737**	**0.0191**	**0.4928**		**1,866.7753**	**1,866.7753**	**0.0974**	**0.0560**	**1,885.8845**

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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.7336	0.6006	8.2062	0.0171	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,737.0265	1,737.0265	0.0947	0.0536	1,755.3608
Total	**3.6953**	**0.7089**	**8.3259**	**0.0177**	**1.7848**	**0.0200**	**1.8048**	**0.4737**	**0.0191**	**0.4928**		**1,866.7753**	**1,866.7753**	**0.0974**	**0.0560**	**1,885.8845**

	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**

Operation - Main - Los Angeles-South Coast County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/8/2021	9/3/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

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	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Operation - Main - Los Angeles-South Coast County, Summer

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

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	0.0000	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	0.0563	0.0431	0.6471	1.5800e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		160.3931	160.3931	4.7300e-003	4.0900e-003	161.7304
Total	**0.0563**	**0.0431**	**0.6471**	**1.5800e-003**	**0.1677**	**1.1500e-003**	**0.1688**	**0.0445**	**1.0600e-003**	**0.0455**		**160.3931**	**160.3931**	**4.7300e-003**	**4.0900e-003**	**161.7304**

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	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**		**1.5513**	**1.5513**		**1.4411**	**1.4411**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Operation - Main - Los Angeles-South Coast County, Summer

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

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
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
Worker	0.0563	0.0431	0.6471	1.5800e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		160.3931	160.3931	4.7300e-003	4.0900e-003	161.7304
Total	**0.0563**	**0.0431**	**0.6471**	**1.5800e-003**	**0.1677**	**1.1500e-003**	**0.1688**	**0.0445**	**1.0600e-003**	**0.0455**		**160.3931**	**160.3931**	**4.7300e-003**	**4.0900e-003**	**161.7304**

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	0.7336	0.6006	8.2062	0.0171	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,737.0265	1,737.0265	0.0947	0.0536	1,755.3608
Unmitigated	0.7336	0.6006	8.2062	0.0171	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,737.0265	1,737.0265	0.0947	0.0536	1,755.3608

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	49.76	49.76	49.76	220,362	220,362
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	147.77	147.77	147.77	633,315	633,315
Total	197.54	197.54	197.54	853,677	853,677

Operation - Main - Los Angeles-South Coast County, Summer

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

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

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	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
NaturalGas Unmitigated	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576

Operation - Main - Los Angeles-South Coast 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					
Manufacturing	836.493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	265.846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

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					
Manufacturing	0.836493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	0.265846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

Operation - Main - Los Angeles-South Coast County, Summer

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Unmitigated	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660

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	lb/day										lb/day					
Architectural Coating	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9499**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

Operation - Main - Los Angeles-South Coast County, Summer

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

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	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9499**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

7.0 Water Detail

7.1 Mitigation Measures Water

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

Operation - Main - Los Angeles-South Coast County, Summer

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

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

Operation - Main - Los Angeles-South Coast County, Winter

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

Operation - Main

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,559.00	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - See assumptions file in the AQ/GHG appendix.

Solid Waste - See assumptions file in the AQ/GHG appendix.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Area Coating - .

Operation - Main - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	HHD	8.0320e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LDT2	0.19	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	LHD2	5.9120e-003	6.0600e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	88,426.80	88,559.00
tblLandUse	LandUseSquareFeet	27,980.00	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LotAcreage	2.59	2.49

Operation - Main - Los Angeles-South Coast County, Winter

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

tblLandUse	LotAcreage	1.11	0.46
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	44.06
tblSolidWaste	SolidWasteGenerationRate	106.06	278.69
tblVehicleTrips	ST_TR	6.42	2.93
tblVehicleTrips	ST_TR	1.74	1.31
tblVehicleTrips	SU_TR	5.09	2.93
tblVehicleTrips	SU_TR	1.74	1.31
tblVehicleTrips	WD_TR	3.93	2.93
tblVehicleTrips	WD_TR	1.74	1.31
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,931,250.00	155,855.00
tblWater	IndoorWaterUseRate	26,091,937.50	155,855.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	OutdoorWaterUseRate	0.00	103,113.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

Operation - Main - Los Angeles-South Coast County, Winter

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

2.0 Emissions Summary

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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.7237	0.6586	7.9153	0.0163	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,654.5027	1,654.5027	0.0973	0.0569	1,673.8874
Total	**3.6855**	**0.7669**	**8.0350**	**0.0169**	**1.7848**	**0.0200**	**1.8048**	**0.4737**	**0.0191**	**0.4928**		**1,784.2516**	**1,784.2516**	**0.1000**	**0.0593**	**1,804.4110**

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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.7237	0.6586	7.9153	0.0163	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,654.5027	1,654.5027	0.0973	0.0569	1,673.8874
Total	**3.6855**	**0.7669**	**8.0350**	**0.0169**	**1.7848**	**0.0200**	**1.8048**	**0.4737**	**0.0191**	**0.4928**		**1,784.2516**	**1,784.2516**	**0.1000**	**0.0593**	**1,804.4110**

	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**

Operation - Main - Los Angeles-South Coast 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	0.7237	0.6586	7.9153	0.0163	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,654.5027	1,654.5027	0.0973	0.0569	1,673.8874
Unmitigated	0.7237	0.6586	7.9153	0.0163	1.7848	0.0117	1.7965	0.4737	0.0108	0.4844		1,654.5027	1,654.5027	0.0973	0.0569	1,673.8874

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	49.76	49.76	49.76	220,362	220,362
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	147.77	147.77	147.77	633,315	633,315
Total	197.54	197.54	197.54	853,677	853,677

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

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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
Manufacturing	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.560437	0.063426	0.191369	0.130691	0.023481	0.006060	0.000000	0.000000	0.000000	0.000000	0.024535	0.000000	0.000000

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	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
NaturalGas Unmitigated	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576

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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	lb/day										lb/day					
Manufacturing	836.493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	265.846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

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					
Manufacturing	0.836493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.265846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

Operation - Main - Los Angeles-South Coast County, Winter

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Unmitigated	2.9499	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660

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	lb/day										lb/day					
Architectural Coating	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9499**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

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

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	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9499**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

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

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

Operation - Trucks

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,426.80	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - Modeling mobile emissions only.

Solid Waste - Modeling mobile emissions only.

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.43
tblFleetMix	MHD	0.01	0.43
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00
tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46

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

tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	0.00
tblSolidWaste	SolidWasteGenerationRate	106.06	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	6.42	1.92
tblVehicleTrips	ST_TR	1.74	0.29
tblVehicleTrips	SU_TR	5.09	1.92
tblVehicleTrips	SU_TR	1.74	0.29
tblVehicleTrips	WD_TR	3.93	1.92
tblVehicleTrips	WD_TR	1.74	0.29
tblWater	IndoorWaterUseRate	3,931,250.00	0.00
tblWater	IndoorWaterUseRate	26,091,937.50	0.00

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

2.0 Emissions Summary

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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	165.7766	165.7766	9.7500e-003	1.5300e-003	166.4749
Mobile	0.0849	3.0054	0.6689	0.0128	0.4284	0.0311	0.4594	0.1227	0.0297	0.1524	0.0000	1,250.9586	1,250.9586	0.0457	0.1822	1,306.3931
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6253**	**3.0251**	**0.6891**	**0.0129**	**0.4284**	**0.0326**	**0.4609**	**0.1227**	**0.0312**	**0.1539**	**0.0000**	**1,416.7422**	**1,416.7422**	**0.0555**	**0.1837**	**1,472.8755**

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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	165.7766	165.7766	9.7500e-003	1.5300e-003	166.4749
Mobile	0.0849	3.0054	0.6689	0.0128	0.4284	0.0311	0.4594	0.1227	0.0297	0.1524	0.0000	1,250.9586	1,250.9586	0.0457	0.1822	1,306.3931
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6253**	**3.0251**	**0.6891**	**0.0129**	**0.4284**	**0.0326**	**0.4609**	**0.1227**	**0.0312**	**0.1539**	**0.0000**	**1,416.7422**	**1,416.7422**	**0.0555**	**0.1837**	**1,472.8755**

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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	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**

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	tons/yr										MT/yr					
Mitigated	0.0849	3.0054	0.6689	0.0128	0.4284	0.0311	0.4594	0.1227	0.0297	0.1524	0.0000	1,250.9586	1,250.9586	0.0457	0.1822	1,306.3931
Unmitigated	0.0849	3.0054	0.6689	0.0128	0.4284	0.0311	0.4594	0.1227	0.0297	0.1524	0.0000	1,250.9586	1,250.9586	0.0457	0.1822	1,306.3931

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	32.59	32.59	32.59	474,614	474,614
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	32.59	32.59	32.59	474,561	474,561
Total	65.17	65.17	65.17	949,175	949,175

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4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0000	144.3054	144.3054	9.3400e-003	1.1300e-003	144.8762
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	144.3054	144.3054	9.3400e-003	1.1300e-003	144.8762
NaturalGas Mitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4711	21.4711	4.1000e-004	3.9000e-004	21.5987
NaturalGas Unmitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4711	21.4711	4.1000e-004	3.9000e-004	21.5987

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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					
Manufacturing	305320	1.6500e-003	0.0150	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.2930	16.2930	3.1000e-004	3.0000e-004	16.3899
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	97033.8	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1781	5.1781	1.0000e-004	9.0000e-005	5.2089
Total		**2.1700e-003**	**0.0197**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**21.4711**	**21.4711**	**4.1000e-004**	**3.9000e-004**	**21.5987**

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					
Manufacturing	305320	1.6500e-003	0.0150	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.2930	16.2930	3.1000e-004	3.0000e-004	16.3899
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	97033.8	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1781	5.1781	1.0000e-004	9.0000e-005	5.2089
Total		**2.1700e-003**	**0.0197**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**21.4711**	**21.4711**	**4.1000e-004**	**3.9000e-004**	**21.5987**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	184620	42.7069	2.7600e-003	3.3000e-004	42.8758
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7067.55	1.6349	1.1000e-004	1.0000e-005	1.6414
Unrefrigerated Warehouse-No Rail	432139	99.9637	6.4700e-003	7.8000e-004	100.3590
Total		**144.3054**	**9.3400e-003**	**1.1200e-003**	**144.8762**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	184620	42.7069	2.7600e-003	3.3000e-004	42.8758
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7067.55	1.6349	1.1000e-004	1.0000e-005	1.6414
Unrefrigerated Warehouse-No Rail	432139	99.9637	6.4700e-003	7.8000e-004	100.3590
Total		**144.3054**	**9.3400e-003**	**1.1200e-003**	**144.8762**

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6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Unmitigated	0.5382	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003

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	0.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Total	**0.5382**	**3.0000e-005**	**3.6200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.0200e-003**	**7.0200e-003**	**2.0000e-005**	**0.0000**	**7.4800e-003**

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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	0.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4800e-003
Total	**0.5382**	**3.0000e-005**	**3.6200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.0200e-003**	**7.0200e-003**	**2.0000e-005**	**0.0000**	**7.4800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Manufacturing	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Manufacturing	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Operation - Trucks - Los Angeles-South Coast County, Summer

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

Operation - Trucks

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,426.80	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - Modeling mobile emissions only.

Solid Waste - Modeling mobile emissions only.

Operation - Trucks - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.43
tblFleetMix	MHD	0.01	0.43
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00
tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46

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tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	0.00
tblSolidWaste	SolidWasteGenerationRate	106.06	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	6.42	1.92
tblVehicleTrips	ST_TR	1.74	0.29
tblVehicleTrips	SU_TR	5.09	1.92
tblVehicleTrips	SU_TR	1.74	0.29
tblVehicleTrips	WD_TR	3.93	1.92
tblVehicleTrips	WD_TR	1.74	0.29
tblWater	IndoorWaterUseRate	3,931,250.00	0.00
tblWater	IndoorWaterUseRate	26,091,937.50	0.00

Operation - Trucks - Los Angeles-South Coast County, Summer

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

2.0 Emissions Summary

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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.4684	15.6501	3.6764	0.0704	2.3925	0.1708	2.5633	0.6836	0.1634	0.8470		7,585.4100	7,585.4100	0.2773	1.1038	7,921.2725
Total	**3.4301**	**15.7584**	**3.7961**	**0.0710**	**2.3925**	**0.1791**	**2.5716**	**0.6836**	**0.1717**	**0.8553**		**7,715.1589**	**7,715.1589**	**0.2799**	**1.1062**	**8,051.7961**

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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.4684	15.6501	3.6764	0.0704	2.3925	0.1708	2.5633	0.6836	0.1634	0.8470		7,585.4100	7,585.4100	0.2773	1.1038	7,921.2725
Total	**3.4301**	**15.7584**	**3.7961**	**0.0710**	**2.3925**	**0.1791**	**2.5716**	**0.6836**	**0.1717**	**0.8553**		**7,715.1589**	**7,715.1589**	**0.2799**	**1.1062**	**8,051.7961**

	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**

Operation - Trucks - Los Angeles-South Coast 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	0.4684	15.6501	3.6764	0.0704	2.3925	0.1708	2.5633	0.6836	0.1634	0.8470		7,585.4100	7,585.4100	0.2773	1.1038	7,921.2725
Unmitigated	0.4684	15.6501	3.6764	0.0704	2.3925	0.1708	2.5633	0.6836	0.1634	0.8470		7,585.4100	7,585.4100	0.2773	1.1038	7,921.2725

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	32.59	32.59	32.59	474,614	474,614
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	32.59	32.59	32.59	474,561	474,561
Total	65.17	65.17	65.17	949,175	949,175

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

Operation - Trucks - Los Angeles-South Coast 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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
NaturalGas Unmitigated	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576

Operation - Trucks - Los Angeles-South Coast 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					
Manufacturing	836.493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	265.846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

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					
Manufacturing	0.836493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No Rail	0.265846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

Operation - Trucks - Los Angeles-South Coast County, Summer

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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Unmitigated	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660

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	lb/day										lb/day					
Architectural Coating	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9498**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

Operation - Trucks - Los Angeles-South Coast County, Summer

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

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	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9498**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

7.0 Water Detail

7.1 Mitigation Measures Water

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

Operation - Trucks - Los Angeles-South Coast County, Summer

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

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

Operation - Trucks - Los Angeles-South Coast County, Winter

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

Operation - Trucks

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	112.83	1000sqft	2.49	112,830.00	0
Manufacturing	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	123.00	Space	0.46	20,193.00	0
Other Asphalt Surfaces	2.03	Acre	2.03	88,426.80	0
Other Non-Asphalt Surfaces	27.98	1000sqft	0.64	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on CO2e intensity of 512 lbs/MWh as reported in SCE 2020 Sustainability Report

Land Use - Based on information provided. See assumptions file in the AQ/GHG appendix.

Construction Phase -

Vehicle Trips - Based on information provided by Urban Crossoads. See assumptions file in the AQ/GHG appendix for details.

Fleet Mix - See assumptions file in the AQ/GHG appendix for details.

Water And Wastewater - Modeling mobile emissions only.

Solid Waste - Modeling mobile emissions only.

Operation - Trucks - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	HHD	8.0320e-003	0.57
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	LHD2	5.9120e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MH	3.3970e-003	0.00
tblFleetMix	MHD	0.01	0.43
tblFleetMix	MHD	0.01	0.43
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	OBUS	9.4000e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	SBUS	6.9200e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblFleetMix	UBUS	6.1700e-004	0.00
tblLandUse	LandUseSquareFeet	49,200.00	20,193.00
tblLandUse	LandUseSquareFeet	27,979.00	0.00
tblLandUse	LotAcreage	2.59	2.49
tblLandUse	LotAcreage	1.11	0.46

Operation - Trucks - Los Angeles-South Coast County, Winter

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

tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	21.08	0.00
tblSolidWaste	SolidWasteGenerationRate	106.06	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TL	16.60	40.01
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	6.42	1.92
tblVehicleTrips	ST_TR	1.74	0.29
tblVehicleTrips	SU_TR	5.09	1.92
tblVehicleTrips	SU_TR	1.74	0.29
tblVehicleTrips	WD_TR	3.93	1.92
tblVehicleTrips	WD_TR	1.74	0.29
tblWater	IndoorWaterUseRate	3,931,250.00	0.00
tblWater	IndoorWaterUseRate	26,091,937.50	0.00

Operation - Trucks - Los Angeles-South Coast County, Winter

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

2.0 Emissions Summary

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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.4640	16.2784	3.6977	0.0704	2.3925	0.1709	2.5634	0.6836	0.1635	0.8471		7,586.0034	7,586.0034	0.2769	1.1047	7,922.1113
Total	**3.4257**	**16.3867**	**3.8174**	**0.0710**	**2.3925**	**0.1792**	**2.5718**	**0.6836**	**0.1718**	**0.8554**		**7,715.7522**	**7,715.7522**	**0.2796**	**1.1070**	**8,052.6349**

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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Energy	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
Mobile	0.4640	16.2784	3.6977	0.0704	2.3925	0.1709	2.5634	0.6836	0.1635	0.8471		7,586.0034	7,586.0034	0.2769	1.1047	7,922.1113
Total	**3.4257**	**16.3867**	**3.8174**	**0.0710**	**2.3925**	**0.1792**	**2.5718**	**0.6836**	**0.1718**	**0.8554**		**7,715.7522**	**7,715.7522**	**0.2796**	**1.1070**	**8,052.6349**

	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**

Operation - Trucks - Los Angeles-South Coast 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	0.4640	16.2784	3.6977	0.0704	2.3925	0.1709	2.5634	0.6836	0.1635	0.8471		7,586.0034	7,586.0034	0.2769	1.1047	7,922.1113
Unmitigated	0.4640	16.2784	3.6977	0.0704	2.3925	0.1709	2.5634	0.6836	0.1635	0.8471		7,586.0034	7,586.0034	0.2769	1.1047	7,922.1113

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	32.59	32.59	32.59	474,614	474,614
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	32.59	32.59	32.59	474,561	474,561
Total	65.17	65.17	65.17	949,175	949,175

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Manufacturing	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	40.01	8.40	6.90	100.00	0.00	0.00	100	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.430769	0.569231	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576
NaturalGas Unmitigated	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.6870	129.6870	2.4900e-003	2.3800e-003	130.4576

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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					
Manufacturing	836.493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	265.846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

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					
Manufacturing	0.836493	9.0200e-003	0.0820	0.0689	4.9000e-004		6.2300e-003	6.2300e-003		6.2300e-003	6.2300e-003		98.4110	98.4110	1.8900e-003	1.8000e-003	98.9958
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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
Unrefrigerated Warehouse-No	0.265846	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2760	31.2760	6.0000e-004	5.7000e-004	31.4619
Total		**0.0119**	**0.1081**	**0.0908**	**6.5000e-004**		**8.2100e-003**	**8.2100e-003**		**8.2100e-003**	**8.2100e-003**		**129.6870**	**129.6870**	**2.4900e-003**	**2.3700e-003**	**130.4576**

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6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Unmitigated	2.9498	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660

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	lb/day										lb/day					
Architectural Coating	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9498**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

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

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	0.3380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6900e-003	2.6000e-004	0.0289	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0619	0.0619	1.6000e-004		0.0660
Total	**2.9498**	**2.6000e-004**	**0.0289**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0619**	**0.0619**	**1.6000e-004**		**0.0660**

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

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