

## Appendix A. Air Quality, Energy, and Greenhouse Gas Impact Analysis



# 5770 INDUSTRIAL PARKWAY

## AIR QUALITY, ENERGY, AND GREENHOUSE GAS IMPACT ANALYSIS

### Prepared By:

ENVIRONMENT | PLANNING | DEVELOPMENT SOLUTIONS, INC.

2 Park Plaza, Suite 1120  
Irvine, CA 92614  
(949) 794-1180

Contact: Alex Garber  
[alex@epdsolutions.com](mailto:alex@epdsolutions.com)

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## 1 INTRODUCTION

This Air Quality, Energy, and Greenhouse Gas Analysis evaluates the potential impacts of the proposed 5770 Industrial Parkway project (proposed project). The project site is located at 5770 Industrial Parkway in the City of San Bernardino, within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The proposed project would build a 52,160 square foot Truck Terminal on a 11.07-acre site. The site is currently occupied by an approximately 34,000 square foot industrial building. The regional location and site plan can be found in *Figure 1* and *Figure 2*, respectively.

### 1.1 Purpose of the Report

To support the CEQA document for the proposed project, this report analyzes the proposed project's construction and operational impacts to air quality (emissions of criteria pollutants), energy usage, and greenhouse gas emissions using the California Emissions Estimator Model (CalEEMod) Version 2020.4.0 land use emission model. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources, and quantify applicable air quality and GHG reductions achieved from mitigation. The thresholds of significance used are the adopted thresholds by the SCAQMD.

### 1.2 Conclusions

The conclusions for the Air Quality, Energy, and Greenhouse Gas (GHG) analysis are as follows:

**Air Quality:** The project's maximum daily regional and local construction and operational emissions would not exceed SCAQMD's regional thresholds of significance. In addition, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 402 and Rule 403 to minimize odors and fugitive particulate matter (PM) dust emissions, and Rule 1113 regarding "Low-Volatile Organic Compounds (VOC)" paints (no more than 50 gram/liter (g/L) of VOC). Projects that do not exceed the regional thresholds are assumed to not have a significant impact on a project level and cumulative level. Therefore, the proposed project would have less than significant air quality impacts.

**Energy:** The proposed project has no unusual characteristics that would cause the construction fuel and energy consumption to be less efficient compared to other similar construction sites throughout the state. The construction related energy consumption would be temporary and localized. Operation of the proposed project would comply with all the energy efficiency requirements under Title 24 and all applicable City business and energy regulations, as verified by the City through the permitting processes. Therefore, the construction and operation of the project would not result in inefficient, wasteful, or unnecessary energy use, and impacts would be less than significant.

**Greenhouse Gas:** The proposed project is consistent with the actions and measures of the 2017 Scoping Plan and City of San Bernardino General Plan respectively and would not interfere with the policies and goals set within those plans. In addition, the proposed project's net GHG emissions of 1,989 MTCO<sub>2e</sub> per year are below the SCAQMD Significance threshold of 10,000 MTCO<sub>2e</sub> per year. Therefore, the project would have less than significant impacts related to GHG emissions.

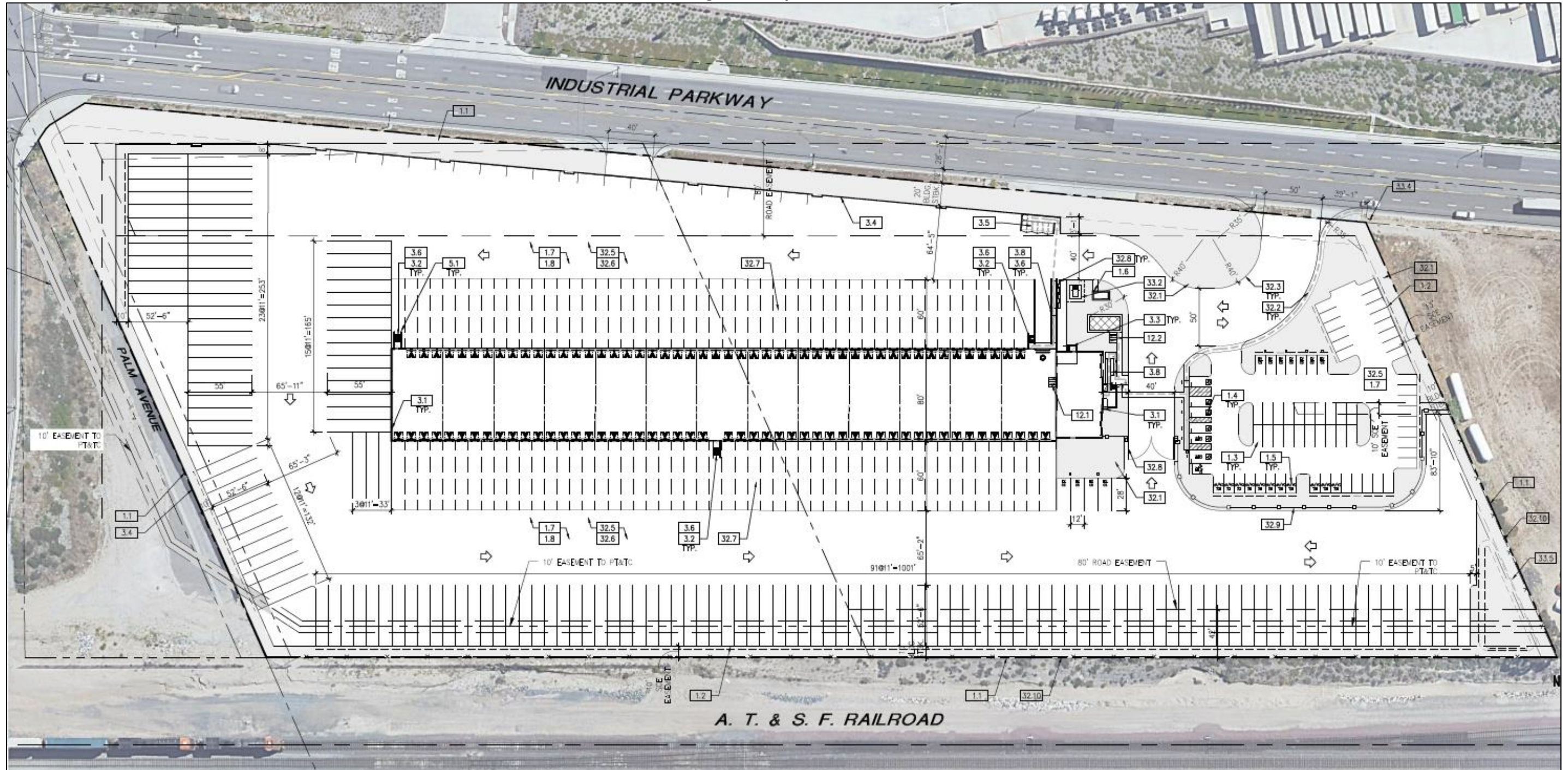


Figure 1: Project Location





Figure 2: Project Site Plan



## 2 AIR QUALITY ENVIRONMENTAL SETTING

### 2.1 Local Climate and Meteorology

#### Climate

The proposed project is located in the Southern California Air Basin (SCAB), which includes all of Orange County, and parts of Los Angeles, Riverside, and San Bernardino Counties. The SCAB is a coastal plain, bound by the Pacific Ocean to the west and southwest, and high mountains surrounding the plain to the north, east and south. The plain exists in a semi-permanent high-pressure zone, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The vertical dispersion of air pollutants in the SCAB is limited by the semi—permanent high-pressure zone creating persistent temperature inversions. High-pressure systems like the one that exists in the SCAB consist of dry air that warms as it descends and restricts the mobility of the cooler moist marine influenced air near the ground surface. The restriction of the vertical dispersion and strong sunlight create the conditions to form photochemical smog.

#### Meteorology

The San Bernardino climate station, approximately 9.5 miles southeast of the project site, meteorological data was used for the project baseline. The average maximum temperature is 79.9 degrees Fahrenheit (°F), with July and August having the highest monthly average maximum temperature and January having the lowest monthly average minimum temperature at 96.2 °F and 38.5 °F respectively. The average annual precipitation for the project area is 16.12 inches (Western Regional Climate Center).

### 2.2 Criteria Pollutants

Criteria Pollutants are air pollutants with state and national air quality standards that define allowable concentrations of these substances in ambient air. These criteria pollutants include:

- **Reactive Organic Gases (ROGs).** ROGs are hydrocarbon compounds that contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) are a precursor to O<sub>3</sub>. ROGs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Not all ROGs have health effects; however, breathing some ROGs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system or cause cancer.
- **Oxides of nitrogen (NO<sub>x</sub>).** NO<sub>x</sub> consists of nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>) and five other compounds, which are formed when nitrogen (N) combines with oxygen. NO<sub>x</sub> is typically created during combustion processes and are major contributors to smog formation and acid deposition. Increase in resistance to air flow and airway contraction is occurs after short-term exposure to NO<sub>x</sub> in healthy subjects and an increase in acute respiratory illness, including infections and respiratory symptoms in children, is associated with long-term exposure to NO<sub>x</sub>.



- **Carbon monoxide (CO).** CO is a colorless, odorless gas produced by sources that burns fuel such as vehicles, construction equipment, and building heating. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Motor vehicles are the primary source of CO in the SCAB and the highest ambient CO concentrations are generally found near congested transportation corridors and intersections. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O<sub>2</sub> transport and competing with O<sub>2</sub> to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Conditions with an increased demand for O<sub>2</sub> supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O<sub>2</sub> deficiency).
- **Sulfur dioxide (SO<sub>2</sub>).** SO<sub>2</sub> is a respiratory irritant generated by burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. Exposure to SO<sub>2</sub> can result in reduction in breathing capacity leading to breathing difficulties.
- **Particulate matter PM<sub>10</sub> (PM<sub>10</sub>).** PM<sub>10</sub> is a major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. PM pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects that include respiratory infections, asthma, lung cancer.
- **Particulate matter PM<sub>2.5</sub> (PM<sub>2.5</sub>).** PM<sub>2.5</sub> consists of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO<sub>4</sub> formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> release from power plants, automobiles, and other types of combustion sources. PM<sub>2.5</sub> results in the same type of health effects as PM<sub>2.5</sub>.

The emissions of these criteria pollutants were estimated using CalEEMod (Version 2020.4.0) to identify the construction and net operational emissions that would be generated by the proposed project.

## 2.3 Sensitive Receptors

A sensitive receptor is defined as an individual who is most susceptible to negative health affects when exposed to air pollutants including children, the elderly, and adults with chronic health issues. Such receptors include residences, schools, elderly care centers, and hospitals where an individual can remain for 24 hours.

The sensitive receptors located near the project site include residences across Interstate 215 to the north and east, and residences along Kendall Drive to the northeast. The closest residence is located approximately 505 meters north of the project boundary.

## 2.4 Existing Air Quality

### **Regional Air Quality**

The USEPA and the State have established air quality standards for six criteria pollutants and the SCAQMD monitors levels of various criteria pollutants at monitoring stations. The air quality in a region is considered to be in attainment if the measured ambient air pollutant levels do not exceed the air quality standards. Conversely, nonattainment means that an area has monitored air quality that does not meet the USEPA or State standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by the California Air Resources Board (CARB). The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the USEPA designates the area as a maintenance area. As shown in Table 1, the project site is in a federal nonattainment area for Ozone (8 hour) and  $PM_{2.5}$ , and a state nonattainment area for Ozone (1 and 8 hour),  $PM_{10}$  and  $PM_{2.5}$ .

**Table 1. Attainment Status of Criteria Pollutants in the South Coast Air Basin**

Pollutant	State	Federal
Ozone (1 hour)	Nonattainment	No Standard
Ozone (8 hour)	Nonattainment	Nonattainment
$PM_{10}$	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Attainment
$NO_2$	Attainment	Attainment
$SO_2$	Attainment	Attainment
Lead	Attainment	Attainment
All others	Attainment/Unclassified	No Standards

Source: CARB 2014; USEPA 2015

### **Local Air Quality**

The project site is located within the Source Receptor Area (SRA) 34. Within SRA 34, the SCAQMD Central San Bernardino Valley 2 monitoring station, located 7.4 miles from the site, is the nearest long-term air quality monitoring station. The Central San Bernardino County 2 monitoring station includes data for Ozone ( $O_3$ ), CO,  $NO_x$ ,  $PM_{10}$  and  $PM_{2.5}$ .

The most recent three years of data available is shown on Table 2 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the project site. Data for  $O_3$ , CO,  $NO_2$ ,  $PM_{10}$ , and  $PM_{2.5}$  for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables. Additionally, data for  $SO_2$  has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure  $SO_2$  concentrations.

**Table 2. Project Area Air Quality Monitoring Summary 2018-2020**

Pollutant	Standard	Year		
		2018	2019	2020
<b>O<sub>3</sub></b>				
Maximum Federal 1-Hour Concentration (ppm)		0.138	0.127	0.162
Maximum Federal 8-Hour Concentration (ppm)		0.116	0.114	0.128
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	63	63	89
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	102	96	128
<b>CO</b>				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.7	1.3	1.9
Maximum Federal 8-Hour Concentration	> 20 ppm	2.5	1.1	1.4
<b>NO<sub>x</sub></b>				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	57.3	59.3	54.0
Annual Federal Standard Design Value		15.8	14.3	14.9
<b>PM<sub>10</sub></b>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 150 µg/m <sup>3</sup>	129	112	80
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )		30.2	29.9	38.7
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m <sup>3</sup>	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m <sup>3</sup>	25	36	81
<b>PM<sub>2.5</sub></b>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 35 µg/m <sup>3</sup>	30.1	34.8	25.7
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )	> 12 µg/m <sup>3</sup>	11.17	10.06	11.66
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m <sup>3</sup>	0	0	0

ppm= Parts Per Million

Source: SCAQMD Historical Air Quality Data By Year, Air Quality Data Tables for Central San Bernardino Valley 2 Air Quality Monitoring Station.



### 3 AIR QUALITY REGULATORY SETTING

#### **Federal**

The United States Environmental Protection Agency (USEPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for criteria pollutants. The USEPA standards, along with the California standards, are shown in Table 3: California and National Ambient Air Quality Standards. The USEPA draws primarily from the Clean Air Act (CAA) to create their air quality mandates. The USEPA requires each state with federal nonattainment areas to prepare and submit a SIP as a part of its enforcement responsibilities. The SIP demonstrates the means to attain and maintain the federal standards set by the USEPA, and must integrate federal, state, and local plan components and regulations to reduce pollution within the SIP identified timeframe. The sections of the CAA most directly applicable to the development of the project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions). Title I provisions were established with the goal of attaining the national air quality standards and Title II provisions are related to mobile source emissions and require use of cleaner burning gasoline and other cleaner burning fuels.

#### **State**

The California Air Resources Board (CARB), a department of the California Environmental Protection Agency, oversees air quality planning and control throughout California. CARB is responsible for coordination and oversight of state and local air pollution control programs in California and for implementation of the California Clean Air Act (CCAA), which requires CARB to establish the California Ambient Air Quality Standards (CAAQS). CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants. Applicable CAAQS are shown in Table 3.

The CCAA requires all local air districts in the state to endeavor to achieve and maintain the CAAQS by the earliest practical date. The act specifies that local air districts shall focus particular attention on reducing the emissions from transportation and area-wide emission sources and provides districts with the authority to regulate indirect sources.

Among CARB's other responsibilities are overseeing compliance by local air districts with California and federal laws, approving local air quality plans, submitting SIPs to the USEPA, monitoring air quality, determining and updating area designations and maps, and setting emissions standards for new mobile sources, consumer products, small utility engines, off-road vehicles, and fuels.

**Table 3. Project Area Air Quality Monitoring Summary 2018-2020**

<b>Ambient Air Quality Standards</b>							
<b>Pollutant</b>	<b>Averaging Time</b>	<b>California Standards <sup>1</sup></b>		<b>National Standards <sup>2</sup></b>			
		<b>Concentration <sup>3</sup></b>	<b>Method <sup>4</sup></b>	<b>Primary <sup>3,5</sup></b>	<b>Secondary <sup>3,6</sup></b>	<b>Method <sup>7</sup></b>	
<b>Ozone (O<sub>3</sub>)<sup>8</sup></b>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry	
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )			
<b>Respirable Particulate Matter (PM<sub>10</sub>)<sup>9</sup></b>	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		—			
<b>Fine Particulate Matter (PM<sub>2.5</sub>)<sup>9</sup></b>	24 Hour	—	—	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12.0 µg/m <sup>3</sup>			15 µg/m <sup>3</sup>
<b>Carbon Monoxide (CO)</b>	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m <sup>3</sup> )	—	Non-Dispersive Infrared Photometry (NDIR)	
	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )		9 ppm (10 mg/m <sup>3</sup> )			
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		—			
<b>Nitrogen Dioxide (NO<sub>2</sub>)<sup>10</sup></b>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	100 ppb (188 µg/m <sup>3</sup> )	—	Gas Phase Chemiluminescence	
	Annual Arithmetic Mean	0.030 ppm (57 µg/m <sup>3</sup> )		0.053 ppm (100 µg/m <sup>3</sup> )			Same as Primary Standard
<b>Sulfur Dioxide (SO<sub>2</sub>)<sup>11</sup></b>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	75 ppb (196 µg/m <sup>3</sup> )	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)	
	3 Hour	—		—			0.5 ppm (1300 µg/m <sup>3</sup> )
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (for certain areas) <sup>11</sup>			—
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) <sup>11</sup>			—
<b>Lead<sup>12,13</sup></b>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption	
	Calendar Quarter	—		1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup>			Same as Primary Standard
	Rolling 3-Month Average	—		0.15 µg/m <sup>3</sup>			
<b>Visibility Reducing Particles<sup>14</sup></b>	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	<b>No National Standards</b>			
<b>Sulfates</b>	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography				
<b>Hydrogen Sulfide</b>	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence				
<b>Vinyl Chloride<sup>12</sup></b>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography				

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

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1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$  is equal to or less than one. For PM<sub>2.5</sub>, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM<sub>2.5</sub> primary standard was lowered from 15  $\mu\text{g}/\text{m}^3$  to 12.0  $\mu\text{g}/\text{m}^3$ . The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35  $\mu\text{g}/\text{m}^3$ , as was the annual secondary standard of 15  $\mu\text{g}/\text{m}^3$ . The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150  $\mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
Note that 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.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5  $\mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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**Title 24, Energy Efficiency and Green Building Standards.** California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards are updated every three years to incorporate new energy efficient technologies and construction methods. The most recent approved update consisting of the 2019 California Green Building Code Standards which became effective January 1, 2020.

The 2019 Title 24 standards result in less energy use, thereby reducing air pollutant emissions associated with energy consumption. Title 24 standards require solar photovoltaic systems and encourage demand responsive technologies for new residential structures.

## Regional

The Southern Coast Air Quality Management District (SCAQMD) is the air pollution control agency in the Basin. The role of the local SCAQMD is to protect the people and the environment of the Basin from the effects of air pollution. SCAQMD shares responsibility with CARB for ensuring that air quality standards are achieved and maintained within the Basin.

SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards. The 2016 AQMP is the most recent and was adopted on March 3, 2017. The 2016 AQMP includes a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures, to meet the following NAAQS:

- 8-hour ozone (75 ppb) by 2032
- Annual PM<sub>2.5</sub> (12 µg/m<sup>3</sup>) by 2021-2025
- 8-hour ozone (80 ppb) by 2024
- 1-hour ozone (120 ppb) by 2023
- 24-hour PM<sub>2.5</sub> (35 µg/m<sup>3</sup>) by 2019

The SCAQMD establishes a program of rules and regulations to obtain attainment of the state and federal standards along with the AQMP. The rules and regulations applicable to this project include, but are not limited to, the following:

- **SCAQMD Rule 402** governs emissions of air contaminants or other material which cause injury, determinant, nuisance, or annoyance to any considerable number of persons or to the public. These apply to any odors that would be deemed objectionable to a substantial number of people. This rule does not apply to agricultural operations necessary for the growing of crops or the raising of fowl or animals.
- **SCAQMD Rule 403** governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.
- **SCAQMD Rule 445** restricts wood burning devices from being installed into any new development and is intended to reduce the emissions of particulate matter for wood burning devices.

- **SCAQMD Rule 1113** allows the use of only Low-Volatile Organic Compounds (VOC)” paints (no more than 50 gram/liter (g/L) of VOC) consistent.

### **Toxic Air Contaminants**

SCAQMD also requires projects to analyze Toxic Air Contaminants (TACs) and the health risks resulting from them. In the SCAB, SCAQMD has prepared a series on in-depth analysis called the Multiple Air Toxics Exposure Studies (MATES). These include MATES I-V. In these reports, Diesel Particulate Matter (DPM) and other air toxics’ relation to cancer risk incidence were analyzed (MATES V 2021). Reductions of cancer risk incidence of 54 percent between MATES IV and MATES V can be seen due to the increasingly stringent DPM emission regulations and improved DPM emission control technologies. MATES V Data (2018) shows that exposure to TACs in the SCAB increased the chances of developing cancer by 455 chances in one million, with DPM comprising 67.3 percent of the TACs analyzed in the report.

## 4 AIR QUALITY THRESHOLDS

### Regional Emissions Thresholds

SCAQMD has adopted regional significance thresholds that identified the maximum daily emissions<sup>1</sup> (pounds/day) for the criteria pollutants during construction and operation of a project. The regional thresholds are listed in Table 4: SCAQMD Regional Emission Significance Thresholds. These emission thresholds include the project emissions generated both from onsite sources (such as off-road construction equipment and fugitive dust) and offsite sources (vehicle travel leaving and arriving to the site).

**Table 4. SCAQMD Regional Emissions Significance Thresholds**

Air Pollutant	Maximum Daily Emissions (pounds/day)	
	Construction	Operation
ROGs	75	55
NO <sub>x</sub>	100	55
CO	550	550
SO <sub>2</sub>	150	150
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55

Source: SCAQMD 2015

### Localized Significance Thresholds

Localized significance thresholds (LSTs) were also adopted by SCAQMD due to the potential of project-related construction or operational air emissions to exceed the state and national air quality standards in the project vicinity, while not exceeding the regional emission significance thresholds adopted by the SCAQMD. These thresholds set the maximum rates of daily construction or operational emissions from a project site that would not exceed a national or State ambient air quality standard<sup>2</sup>. The differences between regional thresholds and LSTs are as follows:

- Regional thresholds include all sources of project construction and operational emissions generated from onsite and offsite emission sources whereas the LSTs only consider the emissions generated from onsite emission sources.
- LSTs only apply to CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>, while regional thresholds include both ROG and SO<sub>2</sub>.
- Regional thresholds apply to emission sources located anywhere within the SCAQMD whereas the LSTs are location dependent and also depend on the size of the project, and emission location relative to the nearest sensitive receptor.

<sup>1</sup> SCAQMD April 2019. Referenced at <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

<sup>2</sup> SCAQMD 2008: Final Localized Significance Threshold Methodology. Referenced at <http://www.aqmd.gov/docs/defaultsource/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>



SCAQMD provides screening look up tables (Appendix C of the SCAQMD 2008 Final Localized Significance Threshold Methodology)<sup>3</sup> for projects that disturb less than or equal to 5 acres in size in a day. These tables were created to easily determine if the daily emissions of NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> from a project could result in a significant impact to the local air quality. To calculate the area to be disturbed, *The SCAQMD Fact Sheet for Applying CalEEMod to Localized Significance Threshold*<sup>4</sup> was used to calculate the appropriate disturbed area. The thresholds are determined by:

- Source receptor area (SRA), the geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts (project is located within SRA 34, Central San Bernardino Valley);
- Size of the project; and
- Distance to the nearest sensitive receptor.

Table 5 shows that, based on size of the project site and the default acres of grading derived from the CalEEMod model, the project would grade 3 acres per day. Therefore, the SCAQMD thresholds for 2 acres and 5 acres were interpolated for a 3-acre site.

The LSTs for Operation are determined by the size of the project site and the distance to the nearest sensitive receptor. The proposed project is 11.07 acres; greater than the maximum 5 acres. Therefore, the thresholds for 5 acres from Appendix C were used as it is a conservative threshold to apply to the project since the LSTs for a 11.07-acre project would be higher than the thresholds for a 5-acre project as the thresholds increase with the size of the project. To calculate the localized mobile emissions, a distance of 0.5 miles was used to capture the distance a vehicle would take to exit the site (site allows one way traffic only, therefore all traffic would travel the same distance around the site).

As stated earlier, the sensitive receptors located near the project site include residences across Interstate 215 to the north and east and residences along Kendall Drive to the northeast. The closest residence is approximately 505 meters north of the project boundary. Therefore, a distance of 500 meters was used as the appropriate receptor distance as it is the highest threshold available.

Table 6 shows the LST thresholds in SRA 34 for construction and operation.

**Table 5. Daily Acres Graded**

Equipment	#	Total Acres Graded Daily
Graders	1	0.5
Rubber Tired Dozers	1	0.5
Scrapers	2	2
<b>Total</b>	<b>4</b>	<b>3</b>

Source: CalEEMod Output Sheets, LST Fact Sheet

<sup>3</sup> SCAQMD 2008: Final Localized Significance Threshold Methodology Appendix C. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>

<sup>4</sup> SCAQMD Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2od-guidance.pdf> (aqmd.gov)

**Table 6. Localized Significance Thresholds**

Air Pollutant	Maximum Daily Emissions (pounds/day)	
	Construction	Operation
NO <sub>x</sub>	715.3	778
CO	24,762.7	27,680
PM <sub>10</sub>	213.0	55
PM <sub>2.5</sub>	109.3	29

Source: Localized Significance Threshold Methodology Appendix C

### Toxic Air Contaminants Thresholds

The City of San Bernardino has not adopted a numerical significance threshold for cancer risk or non-cancer hazards. Therefore, the SCAQMD recommends that its significance thresholds be adopted for this assessment. For cancer risk, the threshold is ten (10) persons per million population as the maximum acceptable incremental cancer risk due to exposure to (TACs). For non-cancer hazards, a hazard index of 1.0 is the maximum acceptable threshold. The hazard index is a ratio of the predicted concentration of the facility's reported TAC emissions to a concentration and is considered acceptable to public health professionals.

### Cumulative Impacts

The SCAQMD has published a report on addressing cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution*<sup>5</sup>. The SCAQMD considers projects that exceed the project-specific significance thresholds to be cumulatively considerable. The project-specific thresholds for regional, localized, and TACs also act as the cumulative thresholds. Therefore, projects that do not exceed the project-specific thresholds would have an individually and cumulatively less than significant impact to air quality.

<sup>5</sup> SCAQMD 2003: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf>

## 5 AIR QUALITY EMISSIONS MODELING METHODOLOGY

### **California Emissions Estimator Model**

In June 2021, the most recent CalEEMod model Version 2020.4.0 was released and was used to calculate emissions that would be generated by the proposed project. The purpose of this model is to calculate construction-source and operational-source criteria pollutant emissions and GHG emissions from direct and indirect sources and quantify applicable air quality and GHG reductions achieved from mitigation. The model runs for both construction and operational activity are attached.

### **Emission Factors Model**

In August 2019, the EPA approved the 2017 version of the Emissions FACtor model (EMFAC) web database for use in SIP and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is used by the CARB. EMFAC2017 is incorporated into CalEEMod 2020.4.0, and thus, included in the modeling that is provided in the attached.

## 6 AIR QUALITY PROJECT IMPACTS

### 6.1 Construction Emissions

The construction schedule, off-road equipment, and vehicle trips can be found in Table 7, Table 8, and Table 9. Construction Vehicle Trips were generated using the defaults from CalEEMod. As shown in Table 7, construction of the project would occur over an approximate 18-month period. The worker and vendor trips were based on the CalEEMod defaults. During the grading phase, it is estimated that 33,510 cubic yards would be imported to balance the site. CalEEMod default haul trips were used for the grading phase.

**Table 7. Construction Schedule**

Activity	Start Date	End Date	Total Days
Demolition	4/1/2022	4/28/2022	20
Site Preparation	4/29/2022	5/12/2022	10
Grading	5/13/2022	6/23/2022	30
Building Construction	6/24/2022	8/17/2023	300
Paving	8/18/2023	9/14/2023	20
Architectural Coating	9/15/2023	10/12/2023	20

Source: CalEEMod Output Sheets

**Table 8. Construction Equipment Inventory**

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozer	2	8	247	0.40
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	8	231	0.29
	Forklifts	3	8	89	0.20
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	8	97	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	8	78	0.48

Source: CalEEMod Output Sheets

**Table 9. Construction Vehicle Trips**

Activity	Construction Trips per Day		Total Trips
	Worker	Vendor	Haul
Demolition	15	0	634
Site Preparation	18	0	0
Grading	20	0	4,189
Building Construction	202	79	0
Paving	15	0	0
Architectural Coating	40	0	0

Source: CalEEMod Output Sheets

The proposed project's estimated maximum daily regional and localized construction emissions are shown in Table 10 and Table 11, respectively. As noted from Table 10 and Table 11, the construction of the proposed project would not exceed the SCAQMD regional or localized emission significance thresholds. All CalEEMod output sheets can be found in Appendix A.

**Table 10. Regional Construction Emission Estimates**

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NOx	CO	SO <sub>2</sub>	PM10	PM2.5
<b>2022</b>						
Demolition	2.8	30.3	22.3	0.1	4.7	1.8
Site Prep	3.2	33.1	17.4	0.0	9.5	5.5
Grading	4.2	58.9	34.8	0.1	8.1	3.9
Building Construction	2.8	21.0	27.0	0.1	3.7	1.6
Maximum Daily Emissions	4.2	58.9	34.8	0.1	9.5	5.5
<b>2023</b>						
Building Construction	2.6	18.9	24.8	0.1	3.5	1.5
Paving	2.3	10.2	15.1	0.0	0.7	0.5
Architectural Coating	15.2	1.8	3.9	0.0	0.5	0.2
Maximum Daily Emissions	15.2	18.9	24.8	0.1	3.5	1.5
<b>Maximum Daily Emission 2022-2023</b>	<b>15.2</b>	<b>58.9</b>	<b>34.8</b>	<b>0.1</b>	<b>9.5</b>	<b>5.5</b>
SCAQMD Significance Thresholds	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod Output Sheets



**Table 11. Localized Construction Emission Estimates**

Construction Activity	Maximum Daily Regional Emissions (pounds/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2022</b>				
Demolition	25.7	20.6	3.9	1.6
Site Preparation	33.1	19.7	9.3	5.4
Grading	38.8	29.0	5.3	2.9
Building Construction	16.8	17.4	0.9	0.8
<b>Maximum Daily Emissions</b>	<b>38.8</b>	<b>29.0</b>	<b>9.3</b>	<b>5.4</b>
<b>2023</b>				
Building Construction	15.4	17.3	0.7	0.7
Paving	10.2	14.6	0.5	0.5
Architectural Coating	1.7	2.4	0.1	0.1
<b>Maximum Daily Emissions</b>	<b>15.4</b>	<b>17.3</b>	<b>0.7</b>	<b>0.7</b>
<b>Maximum Daily Emission 2022-2023</b>	<b>38.8</b>	<b>29.0</b>	<b>9.3</b>	<b>5.4</b>
<b>SCAQMD Significance Thresholds</b>	<b>715.3</b>	<b>24,762.7</b>	<b>213.0</b>	<b>109.3</b>
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEmod Output Sheets

## 6.2 Operational Emissions

Long-term operational emissions are generated resulting from the day-to-day operations, which include:

- Mobile-source emissions: vehicles traveling to and from the project site
- Area-source emissions: landscaping maintenance activities and periodic architectural coatings
- Energy-source emissions: natural gas and electricity consumption

Based on the project's trip generation<sup>6</sup>, the existing pallet manufacturer generates 169 daily weekday trips, and the proposed project is expected to generate 259 daily weekday trips for a net increase of 90 daily weekday trips. The City of Fontana *Truck Trip Generation Study* (August 2003) was used for the mix of vehicles for the existing pallet manufacturer and truck terminal (Light Industrial and Truck Terminals respectively). Table 12 shows the breakdown of project specific details for the pallet manufacturer and truck terminal analysis.

<sup>6</sup> EPD Solutions: 5770 Industrial Parkway Traffic Impact Analysis, 2021

**Table 12. Project Data Inputs**

Metric	Previous Pallet Manufacturer	Proposed Truck Terminal
Building Size	34,000 SF	52,160 SF
Base Year	2021	2023
CalEEMod Land Use	General Light Industrial	General Heavy Industrial
Daily Trip rate	4.96	4.96
Fleet Mix	169 Total Vehicles, 133 Passenger Vehicles, 13 2-Axle Trucks, 7 3-Axle Trucks, 16 4+-Axle Trucks	259 Total Vehicles, 119 Passenger Vehicles, 16 2-Axle Trucks, 36 3-Axle Trucks, and 88 4+-Axle Trucks
Trip Distances	Passenger Vehicles: (CalEEMod Defaults) 2-Axle, 3-Axle, and 4+-Axle Trucks (40 miles, 100 percent primary trips)	Passenger Vehicles: (CalEEMod Defaults) 2-Axle, 3-Axle, and 4+-Axle Trucks (40 miles, 100 percent primary trips)
Localized Operational Impact Trip Distances		0.5

The project's estimated net maximum daily regional emissions are shown in Table 13. Table 14 shows the onsite emissions for the proposed project, however no credit was taken for the existing use in accordance with the *2008 Localized Significance Threshold Methodology*. As noted from Table 13 and 14, the operation of the project would not exceed the SCAQMD regional or localized emission significance thresholds. Therefore, the project would result in a less than significant impact to air quality. All CalEEMod output sheets can be found in Appendix A.

**Table 13. Regional Operational Emission Estimates**

Operational Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	1.3	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.5	0.4	0.0	0.0	0.0
Auto Mobile	0.2	0.2	3.5	0.0	0.3	0.3
Truck Mobile	0.5	23.8	6.1	0.1	5.3	1.6
<b>Total Project Operational Emissions</b>	<b>2.0</b>	<b>24.5</b>	<b>10.0</b>	<b>0.1</b>	<b>5.6</b>	<b>1.9</b>
Existing Operational Emissions	1.4	10.1	7.2	0.1	2.7	0.9
<b>Net Project Operational Emissions</b>	<b>0.6</b>	<b>14.4</b>	<b>2.8</b>	<b>0.0</b>	<b>2.9</b>	<b>1</b>
SCAQMD Significance Thresholds	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod Output Sheets

**Table 14. Localized Operational Emission Estimates**

Operational Activity	Maximum Daily Regional Emissions (pounds/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	0.0	0.0	0.0	0.0
Energy	0.5	0.4	0.0	0.0
Auto Mobile	0.1	0.7	0.0	0.0
Truck Mobile	2.4	1.9	0.1	0.1
<b>Total Project Operational Emissions</b>	<b>3.0</b>	<b>3.0</b>	<b>0.1</b>	<b>0.1</b>
SCAQMD Significance Thresholds	778	27,680	55	29
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

### 6.3 Toxic Air Contaminants

The construction of the project would have short-term DPM emissions from the use of off-road heavy-duty equipment and medium heavy-duty vendor truck vehicles. DPM is a listed carcinogen and TAC in the State of California. To determine the health risk associated with a project, the two important factors to consider are the dose of the substance and the duration of the exposure. According to the Office of Environmental Health Hazard Assessment (OEHHA), Health Risk Assessments (HRA's) are used to determine the impact of exposure of TAC emissions on sensitive receptors. The period/duration of the assessment is based on a 70-year exposure.

The impact of construction equipment on sensitive receptors would be minimal due to the limited number of equipment utilized during the construction period and the short duration of construction when analyzed on a 70-year analysis period. Therefore, the construction of the project would be presumed to have a less than significant impact.

In addition, DPM emissions would be the most significant TAC emissions during the long-term operation of the project. An HRA was prepared for the project, and the resulting cancer risk was 0.12 for a 70-year exposure. Therefore, operation of the project would be presumed to have a less than significant impact.

### 6.4 Air Quality Management Plan Consistency

SCAQMD's CEQA Handbook provides the following two criteria to determine whether a project would be consistent or in conflict with the AQMP:

1. The project would not generate population and employment growth that would be inconsistent with Southern California Association of Government's (SCAG) growth forecasts.
2. The project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

Consistency Criterion No. 1 refers to SCAG's growth forecasts and associated assumptions included in the AQMP. The future air quality levels projected in the AQMP are based on SCAG's growth projections, which are based, in part, on the general plans of cities located within the SCAG region. Therefore, if the level of employment related to the proposed project are consistent with the

applicable assumptions used in the development of the AQMP, the project would not jeopardize attainment of the air quality levels identified in the AQMP.

The project site has a General Plan Land Use designation of University District Specific Plan (UDSP). Within the UDSP, the Land Use designations are General Commercial (CG-1) for the west parcel and Heavy Industrial (IH) for the east parcel. The Heavy Industrial parcel is currently occupied by an approximately 34,000 square foot pallet manufacturer, and the General Commercial parcel is currently vacant. The project would develop the 11.07-acre site with a 52,000 square foot truck terminal, replacing the exiting pallet manufacturer (net increase of 18,000 square feet), and changing the General Commercial land use designation to Heavy Industrial. The potential development that could occur on the vacant General Commercial parcel would be 85,813 square feet (0.5 Floor Area Ratio), significantly higher than the net increase and project as a whole. Thus, implementation of the project would not exceed the growth assumptions for the project site. As a result, the proposed project would be consistent with Consistency Criterion No. 1.

Consistency Criterion No. 2 refers to the CAAQS. An impact would occur if the long-term emissions associated with the proposed project would exceed SCAQMD's regional significance thresholds for operation-phase emissions.

The quantified air quality emissions analysis describes that the proposed project would not exceed any air quality standards. Therefore, the proposed project would be consistent with Criterion No. 2. As the project would be consistent with both Criterion No. 1 and 2, impacts related to consistency with the AQMP would be less than significant.

## 6.5 Odors

Odors would be produced during the construction of the project due to the operation of heavy-duty off-road equipment. The primary odor emitted would be DPM from the vendor trucks and heavy-duty off-road equipment. This odor may be noticeable by nearby employees; however, these odors would be expected of any construction and not necessarily objectionable. These odors would also dissipate quickly and would be temporary in nature. Therefore, due to the temporary and non-objectionable to a substantial number of people nature of the odor produced during construction, the odor impact would be less than significant.

For operational odor emissions, SCAQMD CEQA *Air Quality Handbook*, land use associated with odor complaints include the following:

- Agricultural Uses
- Chemical Plants
- Composting Activities
- Dairies
- Fiberglass Molding
- Food processing plants
- Landfills
- Refineries
- Wastewater Treatment Plants

The project does not propose any of the above land uses and is required to comply with SCAQMD Rule 402, Nuisance, which states:

*A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.*

Thus, impacts associated with odor sources produced by the project would be less than significant.

## 6.6 Conclusion

As shown above in Tables 10, 11, 13, and 14, the project's maximum daily regional and localized construction and operational emissions would not exceed SCAQMD's regional thresholds of significance. In addition, all construction activities would comply with applicable SCAQMD rules and regulations. Given the project land use and size, the exposure to TACs and odors produced by the construction would be minimal and temporary, and operation of the site would be minimal and similar to the surrounding land uses. Therefore, the proposed project would have a less than significant air quality impact and no mitigation is required.



## 7 ENERGY

### 7.1 Environmental Setting

The operation of the proposed 5770 Industrial Parkway project would consume three main sources of energy: electricity, natural gas, and transportation energy resources.

#### Electricity

Electricity in the project area is provided by Southern California Edison (SCE). SCE provides electric power to more than 15 million people and around 50,000 square miles. The Power Content Label Mix (SCE 2018)<sup>7</sup> states that SCE derives electricity from the following sources (from in-state and out-of-state suppliers):

- Eligible Renewable (35.1%)
  - Biomass and Waste (0.6%)
  - Geothermal (5.9%)
  - Eligible Hydroelectric (1.0%)
  - Solar (16.0%)
  - Wind (11.5%)
- Large Hydroelectric (7.9%)
- Nuclear (8.2%)
- Natural Gas (16.1%)
- Other (0.1%)
- Unspecified sources of power (32.6%)

The California Independent Service Operator (ISO) is a nonprofit public benefit corporation that is tasked with the operation of California's power grid and is responsible for maintaining grid reliability. They are also responsible for approving improvements and additions to the power grid required to accommodate the State's electrical needs. The ISO works with other western U.S. states to ensure grid reliability in cases of over and under production within the state. The California Energy Commission (CEC) Total System Electric Generation table<sup>8</sup> shows that California In-State Generation is 190,913 GWh and the Total Import amount is 81,663 GWh for a total 272,576 GWh of energy.

#### Natural Gas

The proposed project and project area is served by Southern California Gas (SoCalGas) which serves 5.9 million customers. The California Public Utilities Commission (CPUC) serves as the regulator of natural gas for SoCalGas, Pacific Gas & Electric, San Diego Gas & Electric (SDG&E), and several smaller and independent utilities and storage operators.

The natural gas consumed in California is provided by both in-state and out-of-state sources, allocated by market supply and demand. The CPUC is tasked with overseeing the purchase and

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<sup>7</sup> 2019 Power Content Label for Southern California Edison found at: <https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure/power-content-label/annual-power-content-0>

<sup>8</sup> California Energy Commission 2020 Total System Electric Generation found at: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation>

transmission of natural gas, by working with in-state sources and the Federal Energy Regulatory Commission to acquire out-of-state sources through the multiple interstate and international pipelines.

According to the *2021 Supplemental California Gas Report*<sup>9</sup>, the 2020 Gas Supply Taken for SoCalGas in million cubic feet per day (MMcf/d) is as follows:

- Core Customers (residential, small commercial, and small industrial) – demand was 920 (MMcf/d)
- Noncore Customers (Electric generator and large industrial) – demand was 1,118 MMcf/d.
- Wholesale/International – demand was 374 MMcf/d.

### Transportation Energy Resources

In addition to consuming electricity and natural gas, the construction and operation of the project would consume fuel for transportation, predominately petroleum (gasoline and diesel fuel). As of January 2021, the Department of Motor Vehicles stated that there were 35.2 million registered vehicles in California<sup>10</sup>, which would consume an estimated that 17.1 billion gallons of fuel a year (calculated using the EMFAC 2017 projection estimates). Of the 17.1 billion gallons consumed, 14.0 billion gallons were gasoline, and 3.1 billion gallons were diesel fuel.

## 7.2 Regulatory Setting

Energy use and consumption are regulated by Federal and State Agencies. The Federal Agencies that impact energy policies and programs include the US Department of Transportation, U.S. Department of Energy, and U.S. Environmental Protection Agency. The State Agencies that impact energy policies include the CPUC and California Energy Commission (CEC).

**Title 24, Energy Efficiency and Green Building Standards.** California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards are updated every three years to incorporate new energy efficient technologies and construction methods. The most recent approved update is the 2019 California Green Building Code Standards which became effective January 1, 2020 and result in less energy use. Title 24 standards require solar photovoltaic systems and encourage demand responsive technologies for new residential structures.

**AB 1493 Pavley Fuel Efficiency Regulations.** California AB 1493 required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Although aimed at reducing GHG emissions, the Pavley standards implement improvements in fuel efficiency that results in a reduction in fuel consumption.

**California Renewable Portfolio Standard.** These standards require retail sellers of electric services to provide 33% of total retail sales of electricity from renewable resources by 2020.

**Clean Energy and Pollution Reduction Act of 2015.** The standards implemented by this Act (SB 350) require:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.

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<sup>9</sup> 2021 California Gas Report found at: <https://www.socalgas.com/regulatory/cgr>

<sup>10</sup> California DMV Statistics 2021 found at: <https://www.dmv.ca.gov/portal/news-and-media/dmv-statistics/>

- Double the energy efficiency in existing buildings by 2030.
- Reorganize the ISO to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

### 7.3 Assumptions and Thresholds

The State CEQA Guidelines do not have specific thresholds for Energy consumption. Rather, the question in Appendix G: VI Energy (a) asks, “[Does the proposed project] Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?”. Therefore, for the purpose of this analysis, a significant impact would occur if:

- The Project design and/or location encourages wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, as well as the use of fuel by vehicles anticipated to travel to and from the project.

The following assumptions were used to calculate the energy consumption of the proposed project:

- The project’s construction and operational electricity consumption would be provided by SCE.
- Construction equipment fuel consumption derived from ARB Offroad2021 emission model
- Fuel Consumption from vehicle travel derived from ARB EMFAC2017 emission model
- Electrical, natural gas, and fuel usage was derived from the CalEEMod model Version 2020.4.0.

### 7.4 Construction Consumption

#### **Electricity and Natural Gas Usage**

Due to the project size and the fact that construction is temporary, the electricity used would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption. The electric power used would be for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers. Natural gas is not anticipated to be needed for construction activities. Any consumption of natural gas would be minor and negligible in comparison to the operation of the proposed project.

#### **Petroleum Fuel Usage**

Construction equipment (off-road/heavy duty vehicles) would rely on diesel fuel as would vendor and haul trucks involved in delivering building materials and removing the demolition debris from the project site. Construction workers would travel to and from the project site throughout the duration of construction, and for a conservative analysis it is assumed that all construction workers would travel in gasoline-powered passenger vehicles.

Table 13 used the total fuel consumption and horsepower-hour data contained within the ARB OffRoad2021 emission model for specific types of diesel construction equipment. It should be noted that the total fuel consumption is a conservative analysis and would likely overstate the amount of fuel usage, as specific construction equipment is not expected to operate during the duration of the construction activity (i.e., crane). Table 14 summarizes the project's construction vehicle fuel usage based on vehicle miles traveled and fuel usage factors contained in the ARB EMFAC2017. The trips included are worker vehicles, vendor vehicles, and haul vehicles. Table 15 shows the overall fuel consumption for construction of the proposed project. Fuel calculations can be found in Appendix B.

**Table 15. Construction Equipment Fuel Usage**

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	20	9461	0.041881728	396
	Excavators	3	8	158	0.38	20	28819	0.01985595	572
	Rubber Tired Dozer	2	8	247	0.4	20	31616	0.020601315	651
Site Preparation	Tractors/Loaders/Backhoes	3	8	247	0.4	10	23712	0.020601315	488
	Rubber Tired Dozers	4	8	97	0.37	10	11485	0.019146832	220
Grading	Excavators	2	8	97	0.37	30	17227	0.019146832	330
	Graders	2	8	158	0.38	30	28819	0.01985595	572
	Rubber Tired Dozers	1	8	187	0.41	30	18401	0.021161331	389
	Scrapers	1	8	247	0.4	30	23712	0.020601315	488
	Tractors/Loaders/Backhoes	2	8	367	0.41	30	72226	0.024988526	1805
Building Construction	Cranes	1	8	231	0.29	300	160776	0.014895293	2395
	Forklifts	3	8	89	0.2	300	128160	0.010444403	1339
	Generator Sets	1	8	84	0.74	300	149184	0.045116197	6731
	Tractors/Loaders/Backhoes	3	8	97	0.37	300	258408	0.019146832	4948
	Welders	1	8	46	0.45	300	49680	0.026298689	1307
Paving	Pavers	2	8	130	0.42	20	17472	0.021532281	376
	Paving Equipment	2	8	132	0.36	20	15206	0.018464524	281
	Rollers	2	8	80	0.38	20	9728	0.019836075	193
Architectural Coating	Air Compressors	1	8	78	0.48	20	5990	0.027796281	166
								Total	23647

Source: CalEEmod Output Sheets, Fuel Calculation Sheet



**Table 16. Estimated Project Construction Vehicle Fuel Usage**

Construction Source	Number	VMT	Fuel Rate	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Haul Trucks	4,823	96,460	6.67	14,459	0
Vendor Trucks	79	163,530	10.92	14,979	0
Worker Vehicles	310	922,866	28.03	0	32,921
Total				29,438	32,921

Source: CalEEMod Output Sheets, Fule Calculation Sheet

**Table 17. Total Construction Fuel Usage**

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	29,438	32,921
Off-road Construction Equipment	23,647	0
Total	53,085	32,921

**Construction Energy Efficiency**

The CARB regulates emissions from construction equipment, and the equipment used for project construction would comply with CARB regulations and California fuel economy/emissions standards, which would be verified through the City's construction permitting process. The project does not include any unusual construction processes that would require a substantial increased need for energy resources. The construction equipment and methods used by the project would not be more energy intensive than typical construction activities throughout the Southern California region.

Construction contractors would be required to comply with applicable CARB regulations regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Section 2449(d)(3) requires that "grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling." In this manner, construction equipment operators are required to be informed that engines are to be turned off at or prior to five minutes of idling. Idling restrictions and the use of newer engines and equipment would result in less fuel consumption, and wasteful or unnecessary consumption of energy would not occur. Overall, project construction would not result in inefficient wasteful, or unnecessary consumption of energy.

**7.5 Operational Consumption**

The operation of the proposed project would consume electricity, natural gas, and petroleum. The net energy consumption is provided in Table 16. Electricity and natural gas consumption were determined by the Annual CalEEMod Output Sheets in Appendix A.

The gasoline consumption rates and diesel consumption rates utilize the same assumptions that were used for the worker vehicles and vendor/haul trucks respectively, and can be found in Appendix B.

**Table 18. Project Annual Net Operational Energy Requirements**

Operational Source	Energy Usage	
<b>Electricity (Kilowatt-Hours)</b>		
Proposed	517,427	
Existing	337,280	
<b>Net</b>	<b>180,147</b>	
<b>Natural Gas (Thousands British Thermal Units)</b>		
Project	1,686,330	
Existing	1,099,220	
<b>Net</b>	<b>587,110</b>	
<b>Petroleum (gasoline) Consumption</b>		
	Annual VMT	Gallons of Gasoline Fuel
Project	526,632	18,609
Existing	533,418	19,030
<b>Net</b>	<b>-6,786</b>	<b>-421</b>
<b>Diesel Consumption</b>		
	Annual VMT	Gallons of Diesel Fuel
Project	2,035,325	220,273
Existing	480,896	52,045
<b>Net</b>	<b>1,554,429</b>	<b>168,228</b>

Source: CalEEmod Output Sheets, Fule Calculation Sheet

## 7.6 Conclusion

The proposed project has no unusual characteristics that would make the construction fuel and energy consumption associated with construction of the project less efficient compared to other similar construction projects throughout the state. The energy consumption for construction would also be temporary and localized. Operation of the of 5770 Industrial Parkway project would comply with all the energy efficiency requirements under Title 24 and all applicable City energy codes. Therefore, the construction and operation of the project would result in a less than significant impact related to inefficient, wasteful, or unnecessary energy use, and no mitigation would be required.

## 8 GREENHOUSE GAS EMISSIONS

### 8.1 Environmental Setting

Gases that trap heat in the atmosphere are often referred to as greenhouse gases (GHGs). GHGs are released into the atmosphere by both natural and anthropogenic activity. The primary GHGs from development projects are CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O.

- CO<sub>2</sub> is an odorless and colorless GHG that is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: burning of coal, oil, natural gas, and wood.
- CH<sub>4</sub> is reactive with oxidizers, halogens, and other halogen-containing compounds and is released as part of the biological processes such as growing rice, raising cattle, fossil-fuel combustion and biomass burning have added to the atmospheric concentration of CH<sub>4</sub>.
- N<sub>2</sub>O is produced by microbial processes in soil and water, fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions. It is used as an aerosol spray propellant in whipped cream cans, used in potato chip bags to keep chips fresh, and used in rocket engines and in race cars.

The CARB compiles GHG inventories for the State of California. Based upon the 2019 GHG inventory data for the 2020-2019 GHG emissions period, California emitted an average 418.2 million metric tons of CO<sub>2</sub>e, CO<sub>2</sub> and other GHG emissions converted into CO<sub>2</sub> by impact on global warming, per year (MMTCO<sub>2</sub>e)<sup>11</sup>. This accounts for 6.38% of the total United States emissions (6,558 MMTCO<sub>2</sub>e)<sup>12</sup>.

SCAG prepared a report to analyze GHG emissions and project GHG emissions to 2035<sup>13</sup>. The last year of historical emissions data available was 2008, where California Emissions were 480.9 MMTCO<sub>2</sub>e and SCAG GHG emissions were 230.2 MMTCO<sub>2</sub>e, which equates to 48% of California's GHG emissions. The report projected by 2020, SCAG would emit 215.8 MMTCO<sub>2</sub>e, a reduction of 6.26%, and using the CARB 2019 GHG inventory data, would comprise of 51.6% of California's GHG emissions.

The cumulative effects of GHGs are global climate change, which has the potential to cause adverse effects to human health. Increases in the Earth's ambient temperatures are anticipated to result in shifts in weather patterns such as more intense heat waves, greater droughts and wildfires in areas, and flooding in others. Higher ambient temperatures can cause more heat-related deaths, increase disease survival rates, and result in food shortages from agricultural losses.

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<sup>11</sup> Air Resources Board, 2019 GHG Inventory: *California Greenhouse Gas Emission Inventory 2000-2017 Edition*

<sup>12</sup> United States Environmental Protection Agency: *Inventory of U.S. Greenhouse Gas Emissions and Sinks*

<sup>13</sup> Final Southern California Association of Governments Regional Greenhouse Gas Emissions Inventory and Reference Case Projections 1990-2035, May 2012

## 8.2 Regulatory Setting

### State

#### California Assembly Bill 1493 - Pavley

The California Legislature adopted AB 1493, requiring the adoption of regulations to reduce GHG emissions in the transportation sector. CARB, EPA, and the U.S. Department of Transportation's National Highway Traffic and Safety Administration (NHTSA) have coordinated efforts to develop fuel economy and GHG standards for model 2017-2025 vehicles. The GHG standards are incorporated into the "Low Emission Vehicle" (LEV) Regulations.

The regulation reduces GHGs from new cars by 34% from 2016 levels by 2025. The regulation improves emissions and fuel economy of gasoline and diesel-powered cars, and provides for zero-emission technologies, such as full battery electric cars, plug-in hybrid electric vehicles (EV), and hydrogen fuel cell cars.

#### California Executive Order S-3-05 – Statewide Emission Reduction Targets

Executive Order S-3-05 was signed by Governor Arnold Schwarzenegger in June 2005. Executive Order S-3-05 establishes statewide emission reduction targets through the year 2050:

- By 2010, reduce GHG emissions to 2000 levels;
- By 2020, reduce GHG emissions to 1990 levels; and
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

#### California Assembly Bill 32 (AB 32), Global Warming Solutions Act of 2006 (Chapter 488, Statutes of 2006)

In 2006, the Legislature passed the California Global Warming Solutions Act of 2006 [Assembly Bill 32 (AB 32)], which created a comprehensive, multi-year program to reduce GHG emissions in California. AB 32 required CARB to develop a Scoping Plan that describes the approach California will take to reduce GHGs. The 2017 Scoping Plan identifies how the State will reach the 2030 climate target to reduce GHG emissions by 40 percent from 1990 levels, and substantially advance toward the 2050 climate goal to reduce GHG emissions by 80 percent below 1990 levels.

The AB 32 Scoping Plan also anticipates that local government actions will result in reduced GHG emissions because local governments have the primary authority to plan, zone, approve, and permit development to accommodate population growth and the changing needs of their jurisdictions. The Scoping Plan also relies on the requirements of Senate Bill 375 (discussed below) to align local land use and transportation planning for achieving GHG reductions.

#### SB 375 – Sustainable Communities and Climate Protection Act of 2008.

According to SB 375, the transportation sector is the largest contributor of GHG emissions and emits over 40% of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

#### Executive Order B-30-15 – 2030 Statewide Emission Reduction Target

Executive Order B-30-15 established an interim statewide GHG reduction target of 40 percent below 1990 levels by 2030. Under this Executive Order, all state agencies with jurisdiction over sources of GHG emissions are required to continue to develop and implement emissions reduction programs to reach the state's 2050 target. According to the Governor's Office, this Executive Order is in line with the scientifically established levels needed in the United States to limit global warming below 2°C - the warming threshold at which scientists say there will likely be major climate disruptions such as super droughts and rising sea levels.

#### Senate Bill 32 (Chapter 249, Statutes of 2016)

SB 32 requires the state to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal of 1990 levels by 2020 and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80 percent below 1990 levels by 2050. A related bill that was also approved in 2016, AB 197 (Chapter 250, Statutes of 2016) creates a legislative committee to oversee regulators to ensure that ARB is not only responsive to the Governor, but also the Legislature.

#### Executive Order B-55-18 and SB 100.

SB 100 raises California's Renewable Portfolio Standards requirement to 50% renewable resources by December 31, 2026, and to achieve 60% by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total amount sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter.

#### Title 24 Requirement

Title 24 Part 6: The California Energy Code was adopted to reduce California's energy consumption. The measures required by development projects in Title 24: Part 6 that are required, but not limited to, the following:

- Short-term bicycle parking. Provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.
- Designated parking for clean air vehicles. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Title 24 Part 6 Table 5.106.5.2.
- Electric vehicle charging stations. Facilitate the future installation of electric vehicle supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, upright and glare ratings per Title 24 Part 6 Table 5.106.8.
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste.

- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals.
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed
    - 1.28 gallons per flush
  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed
    - 0.125 gallons per flush. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi. When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi.
  - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute. Metering faucets shall not deliver more than 0.20 gallons per cycle. Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle.
- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent.
- Water meters. Separate submeters or metering devices shall be installed for new buildings or where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day.
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit.
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements.

Title 24 Part 11: California Green Building Standards Code (CALGreen) was developed in response to continued efforts to reduce GHG emissions associated with energy consumption. The current version of CALGreen Building Standards is the 2019 California Green Building Standards Code, effective January 1, 2020.

## City

### City of San Bernardino General Plan

The City of San Bernardino adopted the *City of San Bernardino General Plan* on November 1<sup>st</sup> 2005. The City of San Bernardino General Plan (SBGP) is the document meant to guide the future



development within the City. The Natural Resources and Conservation Element includes policies relating to Air Quality and GHG emissions and are applicable to the proposed project. The goals and policies laid out within the SBGP Natural Resources and Conservation Element include:

- **Goal 12.5: Promote air quality that is compatible with the health, wellbeing, and enjoyment of life.**
- **Policy 12.5.1:** Reduce the emission of pollutants including carbon monoxide, oxides of nitrogen, photochemical smog, and sulfate in accordance with SCAQMD standards.
- **Policy 12.5.2:** Prohibit the development of land uses (e.g., heavy manufacturing) that will contribute significantly to air quality degradation, unless sufficient mitigation measures are undertaken according SCAQMD standards.
- **Policy 12.5.3:** Require dust abatement measures during grading and construction operations.
- **Policy 12.5.4:** Evaluate the air emissions of industrial land uses to ensure that they will not impact adjacent uses.
- **Policy 12.5.5:** Purchase City vehicles that use energy efficient fuel and minimize air pollution.
- **Goal 12.6: Reduce the amount of vehicular emissions in San Bernardino.**
- **Policy 12.6.1:** Promote a pattern of land uses which locates residential uses in close proximity to employment and commercial services and provides, to the fullest extent possible, local job opportunities and commercial service to minimize vehicular travel and associated air emissions.
- **Policy 12.6.2:** Disperse urban service centers (libraries, post offices, social services, etc.) throughout the City to minimize vehicle miles traveled and the concomitant dispersion of air pollutants.
- **Policy 12.6.3:** Install streetscape improvements and other amenities to encourage pedestrian activity in key City areas and reduce vehicular travel and associated air emissions.
- **Policy 12.6.4:** Facilitate the development of centralized parking lots and structures in commercial districts to promote walking between individual businesses in lieu of the use of automobiles.
- **Policy 12.6.5:** Require qualifying development to implement or participate in transportation demand management programs, which provide incentives for car pooling, van pools, and the use of public transit and employ other trip reduction techniques (consistent with the Circulation Element and South Coast Air Quality Management Plan).
- **Policy 12.6.6:** Continue to cooperate with Omnitrans and the Rapid Transit District to expand as necessary the comprehensive mass transit system for the City to reduce vehicular travel.
- **Policy 12.6.7:** Promote the use of public transit and alternative travel modes to reduce air emissions.
- **Goal 12.6: Participate in regional initiatives and programs to improve the South Coast Basin's air quality.**
- **Policy 12.7.1:** Cooperate with the South Coast Air Quality Management District and incorporate pertinent local implementation provisions of the Air Quality Management Plan.
- **Policy 12.7.2:** Work with the South Coast Air Quality Management District to establish controls and monitor uses in the City that could add to the air basin's degradation (e.g. auto repair, manufacturers).

- **Policy 12.7.3:** Coordinate with SCAQMD to ensure that all elements of air quality plans regarding reduction of air pollutant emissions are being enforced.
- **Policy 12.7.4:** Work with the other cities in the South Coast Air Basin to implement regional mechanisms to reduce air emissions and improve air quality.
- **Policy 12.7.5:** Support legislation that promotes cleaner industry, clean fuel vehicles, and more efficient burning engines and fuels.
- **Policy 12.7.6:** Encourage, publicly recognize, and reward innovative approaches to improve air quality.
- **Policy 12.7.7:** Involve environmental groups, the business community, special interests, and the general public in the formulation and implementation of programs that actively reduce airborne pollutants.

### 8.3 Significance Threshold

The SCAQMD Greenhouse Gas Emissions (GHG) CEQA Significance Threshold Working Group has identified GHG emissions thresholds for land use projects in the *SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold* that could be used by lead agencies.<sup>14</sup> The Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. For industrial land uses, the threshold recommended was 10,000 MTCO<sub>2e</sub>. The City of San Bernardino utilizes this threshold for industrial projects, therefore the threshold for this analysis is 10,000 MTCO<sub>2e</sub> per year.

### 8.4 Project Emissions

To analyze the GHG impacts of the proposed project, CalEEMod Version 2020.4.0 was used. The project's construction GHG emissions are shown in Table 17, and the overall construction and net operational emissions are shown in Table 18. The CalEEMod outputs are attached in Appendix A. The construction emissions are amortized over 30 years pursuant to SCAQMD methodology.

Table 17 shows that the project would emit a total of 1,173 Annual MTCO<sub>2e</sub> in over the duration of construction, with 2022 having the highest emission (679 MTCO<sub>2e</sub>). Amortized over 30 years, the project's construction emissions would be 39 MTCO<sub>2e</sub> per year.

As shown in Table 18, the amortized construction emissions added to the operational emissions (area, energy, mobile, waste, and water) would add up to a total of 2,961 MTCO<sub>2e</sub>. With the existing onsite GHG emissions totaling 972 MTCO<sub>2e</sub>, the proposed projects net GHG emissions total 1,989 MTCO<sub>2e</sub>, which is below the 10,000 MTCO<sub>2e</sub> threshold. Therefore, the proposed project would have a less than significant impact related to GHG emissions.

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<sup>14</sup> SCAQMD 2010. Minutes of the GHG CEQA Significance Threshold Stakeholder Working Group #15. Referenced at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf)

**Table 19. Project Construction GHG Emissions**

Activity	Annual GHG Emissions (MTCO <sub>2e</sub> )
2022	679
2023	494
Total Emissions	1,173
Total Emissions Amortized Over 30 Years	39

Source: CalEEmod Output Sheets

**Table 20. Project Net GHG Emissions**

Activity	Annual GHG Emissions (MTCO <sub>2e</sub> )
<b>Project Operational Emissions</b>	
Area	0
Energy	183
Auto Mobile	160
Truck Mobile	2,499
Waste	33
Water	47
Total Project Gross Operation Emissions	2,922
Project Construction Emissions	39
Total Project Emissions	2,961
Existing Emissions	972
<b>Net Emissions</b>	<b>1,989</b>
Significance Threshold	10,000
<b>Threshold Exceeded?</b>	<b>No</b>

Source: CalEEmod Output Sheets

## 8.5 Project Consistency with SB 32/2017 Scoping Plan and City of San Bernardino General Plan

The 2017 Scoping Plan Update sets the reduction target for 2030 at 40% below 1990 levels, which was codified by SB 32. Table 19 and Table 20 show consistency with both statewide and citywide plans to reduce GHG emissions. As seen in Table 19 and Table 20, the project would be consistent with the 2017 Scoping Plan and City of San Bernardino General Plan actions and goals.

**Table 21. 2017 Scoping Plan Consistency Summary**

Action	Consistency
Increase the Renewables Portfolio Standard to 50% of retail sales by 2030 and ensure grid reliability.	<b>Consistent.</b> The development of the proposed project would not interfere with the implementation of this action.
Establish Annual Targets for Statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.	<b>Consistent.</b> The project would be constructed in accordance with Title 24 “CalGreen” requirements. This would help achieve statewide energy efficiency savings and satisfy this action.
Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly-owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPS.	<b>Consistent.</b> The proposed project would be designed and constructed in accordance with Title 24 “CalGreen” requirements. This would implement the energy efficiency measures that would reduce emissions in the electricity sector. Therefore, the project would satisfy this action.
At least 1.5 million zero emission and plug in hybrid light-duty EVs by 2025.	<b>Consistent.</b> The proposed project would not interfere with the implementation of this action.
At least 4.2 million zero emission and plug-in hybrid light-duty EVs by 2030	<b>Consistent.</b> The proposed project would not interfere with the implementation of this action.
Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.	<b>Consistent.</b> The proposed project would not interfere with the implementation of this action.
Medium-Duty and Heavy-Duty GHG Phase 2.	<b>Consistent.</b> Operation of the proposed project would comply with the Advanced Clean Truck guidelines on Medium-Duty and Heavy-Duty GHG emissions and would satisfy this action.
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20% of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100% of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NOX standard.	<b>Consistent.</b> The proposed project would not interfere with the implementation of this action related to transit busses.
Last Mile Delivery: New regulation that would result in the use of low NOX or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5% of new Class 3–7 truck sales in local fleets	<b>Consistent.</b> The proposed truck terminal is not associated with last mile deliveries and would not interfere with the implementation of this action.

starting in 2020, increasing to 10% in 2025 and remaining flat through 2030.	
Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document "Potential VMT Reduction Strategies for Discussion."	<b>Consistent.</b> The project would not interfere with the implementation of SB 375 and would be consistent with the SCAG 2020-2045 RTP/SCS.
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets)	<b>Consistent.</b> The proposed project would not interfere with efforts to increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).
Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.)	<b>Consistent.</b> The proposed project would not interfere with agency efforts to increase competitiveness of transit and active transportation modes.
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission vehicle zones for heavy duty, road user, parking pricing, transit discounts).	<b>Consistent.</b> The proposed project would not interfere with plans to develop pricing policies to support low-GHG transportation.
Improve freight system efficiency.	<b>Consistent.</b> The proposed project is located along Interstate 215 making it convenient for surface freight transport and would not interfere with efforts to improve freight system efficiency.
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity.	<b>Consistent.</b> The proposed project would not interfere with efforts to increase the long-term resiliency of carbon storage in the land base.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments.	<b>Consistent.</b> The project would not interfere with this, and where applicable the project would utilize wood and agricultural products in the design of the project.
Establish scenario projections to serve as the foundation for the implementation plan.	<b>Consistent.</b> The proposed project would not interfere with the establishment scenario projections to serve as the foundation for the implementation plan.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018.	<b>Consistent.</b> The proposed project would not interfere with the establishment of a carbon accounting framework for natural and working lands as described in SB 859.
Implement Forest Carbon Plan.	<b>Consistent.</b> The project site does not include a forest and the proposed project would not interfere with the implementation of a Forest Carbon Plan.
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	<b>Consistent.</b> The proposed project would not interfere with the expansion of funding and financing mechanisms to support GHG reductions across all sectors.

Source: California's 2017 Climate Change Scoping Plan Table 17: Climate Change Policies and Measures

**Table 22. City of San Bernardino General Plan Consistency Summary**

Measure	Consistency
<b>Goal 12.5: Promote air quality that is compatible with the health, wellbeing, and enjoyment of life.</b>	
<b>P 12.5.1:</b> Reduce the emission of pollutants including carbon monoxide, oxides of nitrogen, photochemical smog, and sulfate in accordance with SCAQMD standards.	<b>Consistent.</b> The proposed project's criteria pollutant emissions are below the SCAQMD regional thresholds and would be consistent with SCAQMD rules and regulations for industrial uses.
<b>P 12.5.2:</b> Prohibit the development of land uses (e.g. heavy manufacturing) that will contribute significantly to air quality degradation, unless sufficient mitigation measures are undertaken according SCAQMD standards.	<b>Consistent.</b> The proposed project would not contribute to air quality degradation and would be consistent with the Advanced Clean Truck Guidance.
<b>P 12.5.3:</b> Require dust abatement measures during grading and construction operations.	<b>Consistent.</b> The construction of the proposed project would comply with SCAQMD Rule 403 and would not have a significant regional or localized impact for PM 10 or PM 2.5 emissions.
<b>P 12.5.4:</b> Evaluate the air emissions of industrial land uses to ensure that they will not impact adjacent uses.	<b>Consistent.</b> The proposed project would not have significant impact on regional or localized emissions.
<b>P 12.5.5:</b> Purchase City vehicles that use energy efficient fuel and minimize air pollution.	<b>Consistent.</b> The proposed project would not interfere with this policy.
<b>Goal 12.6: Reduce the amount of vehicular emissions in San Bernardino.</b>	
<b>P 12.6.1:</b> Promote a pattern of land uses which locates residential uses in close proximity to employment and commercial services and provides, to the fullest extent possible, local job opportunities and commercial services to minimize vehicular travel and associated air emissions.	<b>Consistent.</b> The proposed project would not interfere with residential uses being developed in close proximity to employment and commercial services.
<b>P 12.6.2:</b> Disperse urban Service centers (libraries, post offices, social services, etc.) throughout the City to minimize vehicle miles traveled and the concomitant dispersion of air pollutants.	<b>Consistent.</b> The proposed project would not interfere with service centers being developed in a way to minimize vehicle miles traveled.
<b>P 12.6.3:</b> Install streetscape improvements and other amenities to encourage pedestrian activity in key City areas and reduce vehicular travel and associated air emissions.	<b>Consistent.</b> The proposed project would not interfere with pedestrian activity in appropriate areas within the city.
<b>P 12.6.4:</b> Facilitate the development of centralized parking lots and structures in commercial districts to promote walking between individual businesses in lieu of the use of automobiles.	<b>Consistent.</b> The proposed project is not a commercial district and would not interfere with the development of centralized parking lots in commercial districts.
<b>P 12.6.5:</b> Require qualifying development to implement or participate in transportation demand management programs, which provide incentives for car pooling, van pools, and the use of public transit and employ other trip	<b>Consistent.</b> The proposed project would not interfere with the implementation or participation in transportation demand management programs.

reduction techniques (consistent with the Circulation Element and South Coast Air Quality Management Plan).	
<b>P 12.6.6:</b> Continue to cooperate with Omnitrans and the Rapid Transit District to expand as necessary the comprehensive mass transit system for the City to reduce vehicular travel.	<b>Consistent.</b> The proposed project would not interfere in the cooperation with Omnitrans and the Rapid Transit District.
<b>P 12.6.7:</b> Promote the use of public transit and alternative travel modes to reduce air emissions.	<b>Consistent.</b> The proposed project would not interfere with the promotion of alternative transit modes.
<b>Goal 12.7: Participate in regional initiatives and programs to improve the South Coast Basin's air quality.</b>	
<b>P 12.7.1:</b> Cooperate with the South Coast Air Quality Management District and incorporate pertinent local implementation provisions of the Air Quality Management Plan.	<b>Consistent.</b> The proposed project will comply with all SCAQMD provisions and would not interfere in the cooperation with SCAQMD.
<b>P 12.7.2:</b> Work with the South Coast Air Quality Management District to establish controls and monitor uses in the City that could add to the air basin's degradation (e.g. auto repair, manufacturers).	<b>Consistent.</b> The proposed project would not interfere in the cooperation with SCAQMD to establish controls and monitor uses in the City.
<b>P 12.7.3:</b> Coordinate with SCAQMD to ensure that all elements of air quality plans regarding reduction of air pollutant emissions are being enforced.	<b>Consistent.</b> The proposed project would not interfere in the coordination with SCAQMD to enforce air quality plans.
<b>P 12.7.4:</b> Work with the other cities in the South Coast Air Basin to implement regional mechanisms to reduce air emissions and improve air quality.	<b>Consistent.</b> The proposed project would not interfere in the cooperation with other cities within the SCAB region to implement regional mechanisms to reduce air emissions and improve air quality.
<b>P 12.7.5:</b> Support legislation that promotes cleaner industry, clean fuel vehicles, and more efficient burning engines and fuels.	<b>Consistent.</b> The proposed project does not interfere with the support of legislation that promotes cleaner industry, clean fuel vehicles, and more efficient burning engines and fuels.
<b>P 12.7.6:</b> Encourage, publicly recognize, and reward innovative approaches to improve air quality.	<b>Consistent.</b> The proposed project does not interfere with the promotion of innovative approaches to improve air quality.
<b>P 12.7.7:</b> Involve environmental groups, the business community, special interests, and the general public in the formulation and implementation of programs that actively reduce airborne pollutants.	<b>Consistent.</b> The proposed project does not interfere in the involvement of environmental groups, business community, special interests, and the general public to actively reduce airborne pollutants
Source: City of San Bernardino General Plan Natural Resources and Conservation Element	

## 8.6 Conclusion

The project is consistent with the actions and measures of the 2017 Scoping Plan and SBGP respectively and would not interfere with the policies and goals set within those plans. In addition, the proposed project's net GHG emissions of 1,989 MTCO<sub>2e</sub> per year is below the SCAQMD Significance threshold of 10,000 MTCO<sub>2e</sub> per year. Therefore, the project would have a less than significant impact related to GHG emissions.



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*APPENDIX A – CALEEMOD OUTPUT SHEETS*

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Existing Site Auto - San Bernardino-South Coast County, Annual

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

**Existing Site Auto**

**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Auto Operation

Vehicle Trips - Auto trip rates from project trip generation (EPD Solutions 2021).

Fleet Mix - Auto run only, splits from CalEEMod Defaults.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50

## Existing Site Auto - San Bernardino-South Coast County, Annual

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

tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.3610e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	ST_TR	1.99	1.55
tblVehicleTrips	SU_TR	5.00	3.90
tblVehicleTrips	WD_TR	4.96	3.87

**2.0 Emissions Summary**



Existing Site Auto - San Bernardino-South Coast County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					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 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					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

Existing Site Auto - San Bernardino-South Coast County, Annual

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

		Highest	
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**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	0.1387	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Energy	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	118.4737	118.4737	6.1700e-003	1.6900e-003	119.1308
Mobile	0.0431	0.0584	0.6703	1.8400e-003	0.1988	1.0600e-003	0.1998	0.0528	9.7000e-004	0.0537	0.0000	169.2684	169.2684	5.2300e-003	5.1000e-003	170.9196
Waste						0.0000	0.0000		0.0000	0.0000	8.5581	0.0000	8.5581	0.5058	0.0000	21.2023
Water						0.0000	0.0000		0.0000	0.0000	2.4944	18.1562	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>	<b>0.1877</b>	<b>0.1123</b>	<b>0.7160</b>	<b>2.1600e-003</b>	<b>0.1988</b>	<b>5.1600e-003</b>	<b>0.2039</b>	<b>0.0528</b>	<b>5.0700e-003</b>	<b>0.0578</b>	<b>11.0525</b>	<b>305.8992</b>	<b>316.9517</b>	<b>0.7749</b>	<b>0.0130</b>	<b>340.2057</b>

Existing Site Auto - San Bernardino-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1308	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Energy	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	118.4737	118.4737	6.1700e-003	1.6900e-003	119.1308
Mobile	0.0431	0.0584	0.6703	1.8400e-003	0.1988	1.0600e-003	0.1998	0.0528	9.7000e-004	0.0537	0.0000	169.2684	169.2684	5.2300e-003	5.1000e-003	170.9196
Waste						0.0000	0.0000		0.0000	0.0000	8.5581	0.0000	8.5581	0.5058	0.0000	21.2023
Water						0.0000	0.0000		0.0000	0.0000	2.4944	18.1562	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>	<b>0.1798</b>	<b>0.1123</b>	<b>0.7160</b>	<b>2.1600e-003</b>	<b>0.1988</b>	<b>5.1600e-003</b>	<b>0.2039</b>	<b>0.0528</b>	<b>5.0700e-003</b>	<b>0.0578</b>	<b>11.0525</b>	<b>305.8992</b>	<b>316.9517</b>	<b>0.7749</b>	<b>0.0130</b>	<b>340.2057</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>4.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**











Existing Site Auto - San Bernardino-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: 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	59.8151	59.8151	5.0500e-003	6.1000e-004	60.1237
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8151	59.8151	5.0500e-003	6.1000e-004	60.1237
NaturalGas Mitigated	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
NaturalGas Unmitigated	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071

Existing Site Auto - San Bernardino-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					
General Light Industry	1.09922e+006	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
<b>Total</b>		<b>5.9300e-003</b>	<b>0.0539</b>	<b>0.0453</b>	<b>3.2000e-004</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>58.6586</b>	<b>58.6586</b>	<b>1.1200e-003</b>	<b>1.0800e-003</b>	<b>59.0071</b>

**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					
General Light Industry	1.09922e+006	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
<b>Total</b>		<b>5.9300e-003</b>	<b>0.0539</b>	<b>0.0453</b>	<b>3.2000e-004</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>58.6586</b>	<b>58.6586</b>	<b>1.1200e-003</b>	<b>1.0800e-003</b>	<b>59.0071</b>

Existing Site Auto - San Bernardino-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			
General Light Industry	337280	59.8151	5.0500e-003	6.1000e-004	60.1237
<b>Total</b>		<b>59.8151</b>	<b>5.0500e-003</b>	<b>6.1000e-004</b>	<b>60.1237</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	337280	59.8151	5.0500e-003	6.1000e-004	60.1237
<b>Total</b>		<b>59.8151</b>	<b>5.0500e-003</b>	<b>6.1000e-004</b>	<b>60.1237</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Existing Site Auto - San Bernardino-South Coast County, Annual

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

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.1308	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Unmitigated	0.1387	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004

Existing Site Auto - San Bernardino-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	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
<b>Total</b>	<b>0.1387</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-004</b>

Existing Site Auto - San Bernardino-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**

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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
<b>Total</b>	<b>0.1308</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Existing Site Auto - San Bernardino-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.6506	0.2577	6.2400e-003	28.9520
Unmitigated	20.6506	0.2577	6.2400e-003	28.9520

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	7.8625 / 0	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>		<b>20.6506</b>	<b>0.2577</b>	<b>6.2400e-003</b>	<b>28.9520</b>

Existing Site Auto - San Bernardino-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**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	7.8625 / 0	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>		<b>20.6506</b>	<b>0.2577</b>	<b>6.2400e-003</b>	<b>28.9520</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.5581	0.5058	0.0000	21.2023
Unmitigated	8.5581	0.5058	0.0000	21.2023



Existing Site Auto - San Bernardino-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			
General Light Industry	42.16	8.5581	0.5058	0.0000	21.2023
<b>Total</b>		<b>8.5581</b>	<b>0.5058</b>	<b>0.0000</b>	<b>21.2023</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	42.16	8.5581	0.5058	0.0000	21.2023
<b>Total</b>		<b>8.5581</b>	<b>0.5058</b>	<b>0.0000</b>	<b>21.2023</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Site Auto - San Bernardino-South Coast County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing Site Auto - San Bernardino-South Coast County, Summer

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

**Existing Site Auto**

**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Auto Operation

Vehicle Trips - Auto trip rates from project trip generation (EPD Solutions 2021).

Fleet Mix - Auto run only, splits from CalEEMod Defaults.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50

## Existing Site Auto - San Bernardino-South Coast County, Summer

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

tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.3610e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	ST_TR	1.99	1.55
tblVehicleTrips	SU_TR	5.00	3.90
tblVehicleTrips	WD_TR	4.96	3.87

**2.0 Emissions Summary**



Existing Site Auto - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3126	0.3215	4.6532	0.0120	1.2255	6.3900e-003	1.2319	0.3249	5.8900e-003	0.3308		1,220.2135	1,220.2135	0.0339	0.0320	1,230.6019
<b>Total</b>	<b>1.1050</b>	<b>0.6168</b>	<b>4.9047</b>	<b>0.0138</b>	<b>1.2255</b>	<b>0.0288</b>	<b>1.2544</b>	<b>0.3249</b>	<b>0.0283</b>	<b>0.3532</b>		<b>1,574.5224</b>	<b>1,574.5224</b>	<b>0.0407</b>	<b>0.0385</b>	<b>1,587.0166</b>

**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	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3126	0.3215	4.6532	0.0120	1.2255	6.3900e-003	1.2319	0.3249	5.8900e-003	0.3308		1,220.2135	1,220.2135	0.0339	0.0320	1,230.6019
<b>Total</b>	<b>1.0618</b>	<b>0.6168</b>	<b>4.9047</b>	<b>0.0138</b>	<b>1.2255</b>	<b>0.0288</b>	<b>1.2544</b>	<b>0.3249</b>	<b>0.0283</b>	<b>0.3532</b>		<b>1,574.5224</b>	<b>1,574.5224</b>	<b>0.0407</b>	<b>0.0385</b>	<b>1,587.0166</b>

Existing Site Auto - San Bernardino-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	N2O	CO2e
Percent Reduction	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**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
Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**









Existing Site Auto - San Bernardino-South Coast County, Summer

**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: 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	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
NaturalGas Unmitigated	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068

**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					
General Light Industry	3011.56	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

Existing Site Auto - San Bernardino-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 - Natural Gas**

**Mitigated**

	Natural Gas 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					
General Light Industry	3.01156	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Existing Site Auto - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Unmitigated	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-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	lb/day										lb/day					
Architectural Coating	0.0864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
<b>Total</b>	<b>0.7599</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>		<b>7.9400e-003</b>

Existing Site Auto - San Bernardino-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**

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.4400e-003	7.4400e-003	2.0000e-005	7.9400e-003
<b>Total</b>	<b>0.7167</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>7.9400e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Site Auto - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing Site Auto - San Bernardino-South Coast County, Winter

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

**Existing Site Auto**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Auto Operation

Vehicle Trips - Auto trip rates from project trip generation (EPD Solutions 2021).

Fleet Mix - Auto run only, splits from CalEEMod Defaults.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50



## Existing Site Auto - San Bernardino-South Coast County, Winter

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

tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.53	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.3610e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	ST_TR	1.99	1.55
tblVehicleTrips	SU_TR	5.00	3.90
tblVehicleTrips	WD_TR	4.96	3.87

**2.0 Emissions Summary**

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Existing Site Auto - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.2631	0.3378	3.8716	0.0109	1.2255	6.3900e-003	1.2319	0.3249	5.8900e-003	0.3308		1,108.5359	1,108.5359	0.0345	0.0330	1,119.2399
<b>Total</b>	<b>1.0554</b>	<b>0.6331</b>	<b>4.1231</b>	<b>0.0127</b>	<b>1.2255</b>	<b>0.0288</b>	<b>1.2544</b>	<b>0.3249</b>	<b>0.0283</b>	<b>0.3532</b>		<b>1,462.8447</b>	<b>1,462.8447</b>	<b>0.0413</b>	<b>0.0395</b>	<b>1,475.6547</b>

**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	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.2631	0.3378	3.8716	0.0109	1.2255	6.3900e-003	1.2319	0.3249	5.8900e-003	0.3308		1,108.5359	1,108.5359	0.0345	0.0330	1,119.2399
<b>Total</b>	<b>1.0123</b>	<b>0.6331</b>	<b>4.1231</b>	<b>0.0127</b>	<b>1.2255</b>	<b>0.0288</b>	<b>1.2544</b>	<b>0.3249</b>	<b>0.0283</b>	<b>0.3532</b>		<b>1,462.8447</b>	<b>1,462.8447</b>	<b>0.0413</b>	<b>0.0395</b>	<b>1,475.6547</b>

Existing Site Auto - San Bernardino-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	N2O	CO2e
Percent Reduction	4.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**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
Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**







Existing Site Auto - San Bernardino-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: 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	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
NaturalGas Unmitigated	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068

**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					
General Light Industry	3011.56	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>



Existing Site Auto - San Bernardino-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 - Natural Gas**

**Mitigated**

	Natural Gas 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					
General Light Industry	3.01156	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Existing Site Auto - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Unmitigated	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-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	lb/day										lb/day					
Architectural Coating	0.0864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
<b>Total</b>	<b>0.7599</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>		<b>7.9400e-003</b>

Existing Site Auto - San Bernardino-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**

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.4400e-003	7.4400e-003	2.0000e-005	7.9400e-003
<b>Total</b>	<b>0.7167</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>7.9400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Existing Site Auto - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing Site Truck - San Bernardino-South Coast County, Annual

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

**Existing Site Truck**

**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Truck Operation

Trips and VMT -

Vehicle Trips - Truck rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016)

Fleet Mix - Truck Splits from project trip generation (EPD Solutions 2021)

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True

Existing Site Truck - San Bernardino-South Coast County, Annual

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

tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.3610e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
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	1.99	0.43
tblVehicleTrips	SU_TR	5.00	1.07
tblVehicleTrips	WD_TR	4.96	1.06

**2.0 Emissions Summary**

Existing Site Truck - San Bernardino-South Coast County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					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 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					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
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Existing Site Truck - San Bernardino-South Coast County, Annual

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

		Highest	
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**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	0.1387	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Energy	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	118.4737	118.4737	6.1700e-003	1.6900e-003	119.1308
Mobile	0.0528	1.5834	0.3714	6.1900e-003	0.2122	0.0271	0.2393	0.0599	0.0259	0.0858	0.0000	604.9588	604.9588	0.0209	0.0898	632.2396
Waste						0.0000	0.0000		0.0000	0.0000	8.5581	0.0000	8.5581	0.5058	0.0000	21.2023
Water						0.0000	0.0000		0.0000	0.0000	2.4944	18.1562	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>	<b>0.1974</b>	<b>1.6373</b>	<b>0.4171</b>	<b>6.5100e-003</b>	<b>0.2122</b>	<b>0.0312</b>	<b>0.2434</b>	<b>0.0599</b>	<b>0.0300</b>	<b>0.0899</b>	<b>11.0525</b>	<b>741.5895</b>	<b>752.6420</b>	<b>0.7906</b>	<b>0.0977</b>	<b>801.5256</b>



Existing Site Truck - San Bernardino-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1308	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Energy	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	118.4737	118.4737	6.1700e-003	1.6900e-003	119.1308
Mobile	0.0528	1.5834	0.3714	6.1900e-003	0.2122	0.0271	0.2393	0.0599	0.0259	0.0858	0.0000	604.9588	604.9588	0.0209	0.0898	632.2396
Waste						0.0000	0.0000		0.0000	0.0000	8.5581	0.0000	8.5581	0.5058	0.0000	21.2023
Water						0.0000	0.0000		0.0000	0.0000	2.4944	18.1562	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>	<b>0.1895</b>	<b>1.6373</b>	<b>0.4171</b>	<b>6.5100e-003</b>	<b>0.2122</b>	<b>0.0312</b>	<b>0.2434</b>	<b>0.0599</b>	<b>0.0300</b>	<b>0.0899</b>	<b>11.0525</b>	<b>741.5895</b>	<b>752.6420</b>	<b>0.7906</b>	<b>0.0977</b>	<b>801.5256</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>3.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**







Existing Site Truck - San Bernardino-South Coast County, Annual

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	tons/yr										MT/yr					
Mitigated	0.0528	1.5834	0.3714	6.1900e-003	0.2122	0.0271	0.2393	0.0599	0.0259	0.0858	0.0000	604.9588	604.9588	0.0209	0.0898	632.2396
Unmitigated	0.0528	1.5834	0.3714	6.1900e-003	0.2122	0.0271	0.2393	0.0599	0.0259	0.0858	0.0000	604.9588	604.9588	0.0209	0.0898	632.2396

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	36.04	14.62	36.38	480,896	480,896
Total	36.04	14.62	36.38	480,896	480,896

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	40.00	40.00	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
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000

Existing Site Truck - San Bernardino-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: 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	59.8151	59.8151	5.0500e-003	6.1000e-004	60.1237
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8151	59.8151	5.0500e-003	6.1000e-004	60.1237
NaturalGas Mitigated	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
NaturalGas Unmitigated	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071

Existing Site Truck - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
General Light Industry	1.09922e+006	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
<b>Total</b>		<b>5.9300e-003</b>	<b>0.0539</b>	<b>0.0453</b>	<b>3.2000e-004</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>58.6586</b>	<b>58.6586</b>	<b>1.1200e-003</b>	<b>1.0800e-003</b>	<b>59.0071</b>

**Mitigated**

	Natural Gas 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					
General Light Industry	1.09922e+006	5.9300e-003	0.0539	0.0453	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.6586	58.6586	1.1200e-003	1.0800e-003	59.0071
<b>Total</b>		<b>5.9300e-003</b>	<b>0.0539</b>	<b>0.0453</b>	<b>3.2000e-004</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>		<b>4.1000e-003</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>58.6586</b>	<b>58.6586</b>	<b>1.1200e-003</b>	<b>1.0800e-003</b>	<b>59.0071</b>

Existing Site Truck - San Bernardino-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			
General Light Industry	337280	59.8151	5.0500e-003	6.1000e-004	60.1237
<b>Total</b>		<b>59.8151</b>	<b>5.0500e-003</b>	<b>6.1000e-004</b>	<b>60.1237</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	337280	59.8151	5.0500e-003	6.1000e-004	60.1237
<b>Total</b>		<b>59.8151</b>	<b>5.0500e-003</b>	<b>6.1000e-004</b>	<b>60.1237</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior



Existing Site Truck - San Bernardino-South Coast County, Annual

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

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.1308	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
Unmitigated	0.1387	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004

Existing Site Truck - San Bernardino-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	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
<b>Total</b>	<b>0.1387</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-004</b>

Existing Site Truck - San Bernardino-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**

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	7.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.4000e-004	8.4000e-004	0.0000	0.0000	9.0000e-004
<b>Total</b>	<b>0.1308</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Site Truck - San Bernardino-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.6506	0.2577	6.2400e-003	28.9520
Unmitigated	20.6506	0.2577	6.2400e-003	28.9520

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	7.8625 / 0	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>		<b>20.6506</b>	<b>0.2577</b>	<b>6.2400e-003</b>	<b>28.9520</b>

Existing Site Truck - San Bernardino-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**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	7.8625 / 0	20.6506	0.2577	6.2400e-003	28.9520
<b>Total</b>		<b>20.6506</b>	<b>0.2577</b>	<b>6.2400e-003</b>	<b>28.9520</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.5581	0.5058	0.0000	21.2023
Unmitigated	8.5581	0.5058	0.0000	21.2023

Existing Site Truck - San Bernardino-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			
General Light Industry	42.16	8.5581	0.5058	0.0000	21.2023
<b>Total</b>		<b>8.5581</b>	<b>0.5058</b>	<b>0.0000</b>	<b>21.2023</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	42.16	8.5581	0.5058	0.0000	21.2023
<b>Total</b>		<b>8.5581</b>	<b>0.5058</b>	<b>0.0000</b>	<b>21.2023</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Site Truck - San Bernardino-South Coast County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing Site Truck - San Bernardino-South Coast County, Summer

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

**Existing Site Truck**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Truck Operation

Trips and VMT -

Vehicle Trips - Truck rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016)

Fleet Mix - Truck Splits from project trip generation (EPD Solutions 2021)

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True



Existing Site Truck - San Bernardino-South Coast County, Summer

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

tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.3610e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
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	1.99	0.43
tblVehicleTrips	SU_TR	5.00	1.07
tblVehicleTrips	WD_TR	4.96	1.06

**2.0 Emissions Summary**



Existing Site Truck - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3213	9.0472	2.2506	0.0375	1.3054	0.1641	1.4694	0.3678	0.1570	0.5247		4,040.3235	4,040.3235	0.1399	0.5991	4,222.3667
<b>Total</b>	<b>1.1137</b>	<b>9.3425</b>	<b>2.5021</b>	<b>0.0393</b>	<b>1.3054</b>	<b>0.1865</b>	<b>1.4919</b>	<b>0.3678</b>	<b>0.1794</b>	<b>0.5472</b>		<b>4,394.6323</b>	<b>4,394.6323</b>	<b>0.1468</b>	<b>0.6056</b>	<b>4,578.7814</b>

**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	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3213	9.0472	2.2506	0.0375	1.3054	0.1641	1.4694	0.3678	0.1570	0.5247		4,040.3235	4,040.3235	0.1399	0.5991	4,222.3667
<b>Total</b>	<b>1.0705</b>	<b>9.3425</b>	<b>2.5021</b>	<b>0.0393</b>	<b>1.3054</b>	<b>0.1865</b>	<b>1.4919</b>	<b>0.3678</b>	<b>0.1794</b>	<b>0.5472</b>		<b>4,394.6323</b>	<b>4,394.6323</b>	<b>0.1468</b>	<b>0.6056</b>	<b>4,578.7814</b>

Existing Site Truck - San Bernardino-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	N2O	CO2e
Percent Reduction	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**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

**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
Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**





Existing Site Truck - San Bernardino-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	0.3213	9.0472	2.2506	0.0375	1.3054	0.1641	1.4694	0.3678	0.1570	0.5247		4,040.3235	4,040.3235	0.1399	0.5991	4,222.3667
Unmitigated	0.3213	9.0472	2.2506	0.0375	1.3054	0.1641	1.4694	0.3678	0.1570	0.5247		4,040.3235	4,040.3235	0.1399	0.5991	4,222.3667

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	36.04	14.62	36.38	480,896	480,896
Total	36.04	14.62	36.38	480,896	480,896

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	40.00	40.00	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
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000

Existing Site Truck - San Bernardino-South Coast County, Summer

**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: 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	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
NaturalGas Unmitigated	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068

**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					
General Light Industry	3011.56	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>



Existing Site Truck - San Bernardino-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**

**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					
General Light Industry	3.01156	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Existing Site Truck - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Unmitigated	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-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	lb/day										lb/day					
Architectural Coating	0.0864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
<b>Total</b>	<b>0.7599</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>		<b>7.9400e-003</b>

Existing Site Truck - San Bernardino-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**

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.4400e-003	7.4400e-003	2.0000e-005	7.9400e-003
<b>Total</b>	<b>0.7167</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>7.9400e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Existing Site Truck - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Existing Site Truck - San Bernardino-South Coast County, Winter

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

**Existing Site Truck**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	34.00	1000sqft	0.78	34,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Existing Truck Operation

Trips and VMT -

Vehicle Trips - Truck rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016)

Fleet Mix - Truck Splits from project trip generation (EPD Solutions 2021)

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True

Existing Site Truck - San Bernardino-South Coast County, Winter

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

tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	1.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.3610e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
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	1.99	0.43
tblVehicleTrips	SU_TR	5.00	1.07
tblVehicleTrips	WD_TR	4.96	1.06

**2.0 Emissions Summary**



Existing Site Truck - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3177	9.4745	2.2646	0.0375	1.3054	0.1642	1.4695	0.3678	0.1571	0.5248		4,041.0660	4,041.0660	0.1397	0.5997	4,223.2585
<b>Total</b>	<b>1.1101</b>	<b>9.7698</b>	<b>2.5161</b>	<b>0.0393</b>	<b>1.3054</b>	<b>0.1866</b>	<b>1.4920</b>	<b>0.3678</b>	<b>0.1795</b>	<b>0.5473</b>		<b>4,395.3748</b>	<b>4,395.3748</b>	<b>0.1465</b>	<b>0.6062</b>	<b>4,579.6732</b>

**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	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Energy	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
Mobile	0.3177	9.4745	2.2646	0.0375	1.3054	0.1642	1.4695	0.3678	0.1571	0.5248		4,041.0660	4,041.0660	0.1397	0.5997	4,223.2585
<b>Total</b>	<b>1.0669</b>	<b>9.7698</b>	<b>2.5161</b>	<b>0.0393</b>	<b>1.3054</b>	<b>0.1866</b>	<b>1.4920</b>	<b>0.3678</b>	<b>0.1795</b>	<b>0.5473</b>		<b>4,395.3748</b>	<b>4,395.3748</b>	<b>0.1465</b>	<b>0.6062</b>	<b>4,579.6732</b>



Existing Site Truck - San Bernardino-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	N2O	CO2e
Percent Reduction	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	10/6/2021	10/5/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**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
Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**





Existing Site Truck - San Bernardino-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	0.3177	9.4745	2.2646	0.0375	1.3054	0.1642	1.4695	0.3678	0.1571	0.5248		4,041.0660	4,041.0660	0.1397	0.5997	4,223.2585
Unmitigated	0.3177	9.4745	2.2646	0.0375	1.3054	0.1642	1.4695	0.3678	0.1571	0.5248		4,041.0660	4,041.0660	0.1397	0.5997	4,223.2585

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	36.04	14.62	36.38	480,896	480,896
Total	36.04	14.62	36.38	480,896	480,896

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	40.00	40.00	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
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000

Existing Site Truck - San Bernardino-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: 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	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
NaturalGas Unmitigated	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068

**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					
General Light Industry	3011.56	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

Existing Site Truck - San Bernardino-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 - Natural Gas**

Mitigated

	Natural Gas 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					
General Light Industry	3.01156	0.0325	0.2953	0.2480	1.7700e-003		0.0224	0.0224		0.0224	0.0224		354.3014	354.3014	6.7900e-003	6.5000e-003	356.4068
<b>Total</b>		<b>0.0325</b>	<b>0.2953</b>	<b>0.2480</b>	<b>1.7700e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>354.3014</b>	<b>354.3014</b>	<b>6.7900e-003</b>	<b>6.5000e-003</b>	<b>356.4068</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Existing Site Truck - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7167	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
Unmitigated	0.7599	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-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	lb/day										lb/day					
Architectural Coating	0.0864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.4400e-003	7.4400e-003	2.0000e-005		7.9400e-003
<b>Total</b>	<b>0.7599</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>		<b>7.9400e-003</b>

Existing Site Truck - San Bernardino-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**

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	0.0432					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6732					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.4400e-003	7.4400e-003	2.0000e-005	7.9400e-003
<b>Total</b>	<b>0.7167</b>	<b>3.0000e-005</b>	<b>3.4800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>7.4400e-003</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>7.9400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Existing Site Truck - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**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**

**5770 Industrial Parkway Project Construction**

**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Construction Analysis Only.

Fleet Mix -

Consumer Products - Construction Analysis only

Area Coating - Construction Analysis Only

Landscape Equipment - Construction Analysis Only

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

Project Characteristics -

Energy Use - Construction analysis only

Water And Wastewater - Construction analysis only

Solid Waste - Construction analysis only

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation -

Land Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	1.98E-05	1E-10
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-10
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-11
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialImported	0.00	33,510.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.09	0.00

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

tblSolidWaste	SolidWasteGenerationRate	64.68	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblWater	IndoorWaterUseRate	12,062,000.00	0.00
tblWater	OutdoorWaterUseRate	1,179,566.54	0.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2919	2.7825	2.6068	7.2500e-003	0.5388	0.1109	0.6497	0.1788	0.1035	0.2823	0.0000	664.6282	664.6282	0.0950	0.0403	679.0024
2023	0.3765	1.6687	2.2430	5.3700e-003	0.2285	0.0700	0.2986	0.0616	0.0658	0.1274	0.0000	486.5779	486.5779	0.0631	0.0207	494.3120
<b>Maximum</b>	<b>0.3765</b>	<b>2.7825</b>	<b>2.6068</b>	<b>7.2500e-003</b>	<b>0.5388</b>	<b>0.1109</b>	<b>0.6497</b>	<b>0.1788</b>	<b>0.1035</b>	<b>0.2823</b>	<b>0.0000</b>	<b>664.6282</b>	<b>664.6282</b>	<b>0.0950</b>	<b>0.0403</b>	<b>679.0024</b>

**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	0.2919	2.7825	2.6068	7.2500e-003	0.3516	0.1109	0.4625	0.1080	0.1035	0.2115	0.0000	664.6278	664.6278	0.0950	0.0403	679.0020
2023	0.3765	1.6687	2.2430	5.3700e-003	0.2285	0.0700	0.2986	0.0616	0.0658	0.1274	0.0000	486.5776	486.5776	0.0631	0.0207	494.3117
<b>Maximum</b>	<b>0.3765</b>	<b>2.7825</b>	<b>2.6068</b>	<b>7.2500e-003</b>	<b>0.3516</b>	<b>0.1109</b>	<b>0.4625</b>	<b>0.1080</b>	<b>0.1035</b>	<b>0.2115</b>	<b>0.0000</b>	<b>664.6278</b>	<b>664.6278</b>	<b>0.0950</b>	<b>0.0403</b>	<b>679.0020</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	24.39	0.00	19.74	29.43	0.00	17.27	0.00	0.00	0.00	0.01	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	3-22-2022	6-21-2022	1.3990	1.3990
4	6-22-2022	9-21-2022	0.8022	0.8022
5	9-22-2022	12-21-2022	0.7709	0.7709
6	12-22-2022	3-21-2023	0.6958	0.6958
7	3-22-2023	6-21-2023	0.6984	0.6984
8	6-22-2023	9-21-2023	0.5998	0.5998
9	9-22-2023	9-30-2023	0.0547	0.0547
		Highest	1.3990	1.3990

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

**2.2 Overall Operational**

**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	1.0000e-005	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-005	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

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

**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	4/1/2022	4/28/2022	5	20	
2	Site Preparation	Site Preparation	4/29/2022	5/12/2022	5	10	
3	Grading	Grading	5/13/2022	6/23/2022	5	30	



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

4	Building Construction	Building Construction	6/24/2022	8/17/2023	5	300
5	Paving	Paving	8/18/2023	9/14/2023	5	20
6	Architectural Coating	Architectural Coating	9/15/2023	10/12/2023	5	20

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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

Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	634.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,189.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	202.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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

**3.2 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					0.0686	0.0000	0.0686	0.0104	0.0000	0.0104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
<b>Total</b>	<b>0.0264</b>	<b>0.2572</b>	<b>0.2059</b>	<b>3.9000e-004</b>	<b>0.0686</b>	<b>0.0124</b>	<b>0.0811</b>	<b>0.0104</b>	<b>0.0116</b>	<b>0.0219</b>	<b>0.0000</b>	<b>33.9902</b>	<b>33.9902</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>34.2289</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0457	0.0114	1.9000e-004	5.4600e-003	4.5000e-004	5.9100e-003	1.5000e-003	4.3000e-004	1.9300e-003	0.0000	18.4241	18.4241	7.9000e-004	2.9200e-003	19.3139
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	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0461</b>	<b>0.0167</b>	<b>2.0000e-004</b>	<b>7.1000e-003</b>	<b>4.6000e-004</b>	<b>7.5600e-003</b>	<b>1.9400e-003</b>	<b>4.4000e-004</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>19.7434</b>	<b>19.7434</b>	<b>8.3000e-004</b>	<b>2.9600e-003</b>	<b>20.6454</b>

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**3.2 Demolition - 2022**

**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					0.0268	0.0000	0.0268	4.0500e-003	0.0000	4.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
<b>Total</b>	<b>0.0264</b>	<b>0.2572</b>	<b>0.2059</b>	<b>3.9000e-004</b>	<b>0.0268</b>	<b>0.0124</b>	<b>0.0392</b>	<b>4.0500e-003</b>	<b>0.0116</b>	<b>0.0156</b>	<b>0.0000</b>	<b>33.9902</b>	<b>33.9902</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>34.2289</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1800e-003	0.0457	0.0114	1.9000e-004	5.4600e-003	4.5000e-004	5.9100e-003	1.5000e-003	4.3000e-004	1.9300e-003	0.0000	18.4241	18.4241	7.9000e-004	2.9200e-003	19.3139
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	5.7000e-004	4.4000e-004	5.3200e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.3193	1.3193	4.0000e-005	4.0000e-005	1.3315
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0461</b>	<b>0.0167</b>	<b>2.0000e-004</b>	<b>7.1000e-003</b>	<b>4.6000e-004</b>	<b>7.5600e-003</b>	<b>1.9400e-003</b>	<b>4.4000e-004</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>19.7434</b>	<b>19.7434</b>	<b>8.3000e-004</b>	<b>2.9600e-003</b>	<b>20.6454</b>

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

**3.3 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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.7000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7916	0.7916	2.0000e-005	2.0000e-005	0.7989
<b>Total</b>	<b>3.4000e-004</b>	<b>2.7000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7916</b>	<b>0.7916</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7989</b>

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**3.3 Site Preparation - 2022**

**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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0383</b>	<b>8.0600e-003</b>	<b>0.0464</b>	<b>0.0197</b>	<b>7.4200e-003</b>	<b>0.0271</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.7000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7916	0.7916	2.0000e-005	2.0000e-005	0.7989
<b>Total</b>	<b>3.4000e-004</b>	<b>2.7000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7916</b>	<b>0.7916</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7989</b>

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

**3.4 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					0.1400	0.0000	0.1400	0.0551	0.0000	0.0551	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
<b>Total</b>	<b>0.0544</b>	<b>0.5827</b>	<b>0.4356</b>	<b>9.3000e-004</b>	<b>0.1400</b>	<b>0.0245</b>	<b>0.1645</b>	<b>0.0551</b>	<b>0.0226</b>	<b>0.0777</b>	<b>0.0000</b>	<b>81.8019</b>	<b>81.8019</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4633</b>

**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	7.7800e-003	0.3017	0.0752	1.2300e-003	0.0361	3.0000e-003	0.0391	9.9100e-003	2.8700e-003	0.0128	0.0000	121.7328	121.7328	5.2000e-003	0.0193	127.6116
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	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
<b>Total</b>	<b>8.9100e-003</b>	<b>0.3026</b>	<b>0.0858</b>	<b>1.2600e-003</b>	<b>0.0394</b>	<b>3.0200e-003</b>	<b>0.0424</b>	<b>0.0108</b>	<b>2.8900e-003</b>	<b>0.0137</b>	<b>0.0000</b>	<b>124.3714</b>	<b>124.3714</b>	<b>5.2800e-003</b>	<b>0.0194</b>	<b>130.2747</b>

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**3.4 Grading - 2022**

**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					0.0546	0.0000	0.0546	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
<b>Total</b>	<b>0.0544</b>	<b>0.5827</b>	<b>0.4356</b>	<b>9.3000e-004</b>	<b>0.0546</b>	<b>0.0245</b>	<b>0.0791</b>	<b>0.0215</b>	<b>0.0226</b>	<b>0.0441</b>	<b>0.0000</b>	<b>81.8018</b>	<b>81.8018</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4632</b>

**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	7.7800e-003	0.3017	0.0752	1.2300e-003	0.0361	3.0000e-003	0.0391	9.9100e-003	2.8700e-003	0.0128	0.0000	121.7328	121.7328	5.2000e-003	0.0193	127.6116
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	1.1300e-003	8.9000e-004	0.0107	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6386	2.6386	8.0000e-005	8.0000e-005	2.6631
<b>Total</b>	<b>8.9100e-003</b>	<b>0.3026</b>	<b>0.0858</b>	<b>1.2600e-003</b>	<b>0.0394</b>	<b>3.0200e-003</b>	<b>0.0424</b>	<b>0.0108</b>	<b>2.8900e-003</b>	<b>0.0137</b>	<b>0.0000</b>	<b>124.3714</b>	<b>124.3714</b>	<b>5.2800e-003</b>	<b>0.0194</b>	<b>130.2747</b>



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**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	0.1234	1.1402	1.1859	1.9600e-003		0.0588	0.0588		0.0552	0.0552	0.0000	168.8510	168.8510	0.0414	0.0000	169.8859
<b>Total</b>	<b>0.1234</b>	<b>1.1402</b>	<b>1.1859</b>	<b>1.9600e-003</b>		<b>0.0588</b>	<b>0.0588</b>		<b>0.0552</b>	<b>0.0552</b>	<b>0.0000</b>	<b>168.8510</b>	<b>168.8510</b>	<b>0.0414</b>	<b>0.0000</b>	<b>169.8859</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1600e-003	0.2474	0.0877	1.0000e-003	0.0339	2.8000e-003	0.0367	9.7800e-003	2.6800e-003	0.0125	0.0000	97.5468	97.5468	2.6300e-003	0.0145	101.9176
Worker	0.0518	0.0406	0.4874	1.3100e-003	0.1506	8.1000e-004	0.1514	0.0400	7.4000e-004	0.0407	0.0000	120.8122	120.8122	3.4400e-003	3.4700e-003	121.9328
<b>Total</b>	<b>0.0609</b>	<b>0.2881</b>	<b>0.5752</b>	<b>2.3100e-003</b>	<b>0.1845</b>	<b>3.6100e-003</b>	<b>0.1881</b>	<b>0.0498</b>	<b>3.4200e-003</b>	<b>0.0532</b>	<b>0.0000</b>	<b>218.3590</b>	<b>218.3590</b>	<b>6.0700e-003</b>	<b>0.0179</b>	<b>223.8504</b>

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

**3.5 Building Construction - 2022**

**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	0.1234	1.1402	1.1859	1.9600e-003		0.0588	0.0588		0.0552	0.0552	0.0000	168.8508	168.8508	0.0414	0.0000	169.8857
<b>Total</b>	<b>0.1234</b>	<b>1.1402</b>	<b>1.1859</b>	<b>1.9600e-003</b>		<b>0.0588</b>	<b>0.0588</b>		<b>0.0552</b>	<b>0.0552</b>	<b>0.0000</b>	<b>168.8508</b>	<b>168.8508</b>	<b>0.0414</b>	<b>0.0000</b>	<b>169.8857</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1600e-003	0.2474	0.0877	1.0000e-003	0.0339	2.8000e-003	0.0367	9.7800e-003	2.6800e-003	0.0125	0.0000	97.5468	97.5468	2.6300e-003	0.0145	101.9176
Worker	0.0518	0.0406	0.4874	1.3100e-003	0.1506	8.1000e-004	0.1514	0.0400	7.4000e-004	0.0407	0.0000	120.8122	120.8122	3.4400e-003	3.4700e-003	121.9328
<b>Total</b>	<b>0.0609</b>	<b>0.2881</b>	<b>0.5752</b>	<b>2.3100e-003</b>	<b>0.1845</b>	<b>3.6100e-003</b>	<b>0.1881</b>	<b>0.0498</b>	<b>3.4200e-003</b>	<b>0.0532</b>	<b>0.0000</b>	<b>218.3590</b>	<b>218.3590</b>	<b>6.0700e-003</b>	<b>0.0179</b>	<b>223.8504</b>

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

**3.5 Building Construction - 2023**

**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	0.1372	1.2659	1.4194	2.3600e-003		0.0613	0.0613		0.0576	0.0576	0.0000	203.6889	203.6889	0.0496	0.0000	204.9294
<b>Total</b>	<b>0.1372</b>	<b>1.2659</b>	<b>1.4194</b>	<b>2.3600e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0576</b>	<b>0.0576</b>	<b>0.0000</b>	<b>203.6889</b>	<b>203.6889</b>	<b>0.0496</b>	<b>0.0000</b>	<b>204.9294</b>

**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	7.3000e-003	0.2390	0.0968	1.1600e-003	0.0409	1.7100e-003	0.0426	0.0118	1.6400e-003	0.0134	0.0000	112.9005	112.9005	2.9400e-003	0.0167	117.9460
Worker	0.0577	0.0431	0.5390	1.5300e-003	0.1816	9.1000e-004	0.1825	0.0482	8.4000e-004	0.0491	0.0000	141.8472	141.8472	3.7200e-003	3.8500e-003	143.0872
<b>Total</b>	<b>0.0650</b>	<b>0.2821</b>	<b>0.6357</b>	<b>2.6900e-003</b>	<b>0.2225</b>	<b>2.6200e-003</b>	<b>0.2251</b>	<b>0.0600</b>	<b>2.4800e-003</b>	<b>0.0625</b>	<b>0.0000</b>	<b>254.7478</b>	<b>254.7478</b>	<b>6.6600e-003</b>	<b>0.0205</b>	<b>261.0332</b>

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**3.5 Building Construction - 2023**

**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	0.1372	1.2659	1.4194	2.3600e-003		0.0613	0.0613		0.0576	0.0576	0.0000	203.6887	203.6887	0.0496	0.0000	204.9291
<b>Total</b>	<b>0.1372</b>	<b>1.2659</b>	<b>1.4194</b>	<b>2.3600e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0576</b>	<b>0.0576</b>	<b>0.0000</b>	<b>203.6887</b>	<b>203.6887</b>	<b>0.0496</b>	<b>0.0000</b>	<b>204.9291</b>

**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	7.3000e-003	0.2390	0.0968	1.1600e-003	0.0409	1.7100e-003	0.0426	0.0118	1.6400e-003	0.0134	0.0000	112.9005	112.9005	2.9400e-003	0.0167	117.9460
Worker	0.0577	0.0431	0.5390	1.5300e-003	0.1816	9.1000e-004	0.1825	0.0482	8.4000e-004	0.0491	0.0000	141.8472	141.8472	3.7200e-003	3.8500e-003	143.0872
<b>Total</b>	<b>0.0650</b>	<b>0.2821</b>	<b>0.6357</b>	<b>2.6900e-003</b>	<b>0.2225</b>	<b>2.6200e-003</b>	<b>0.2251</b>	<b>0.0600</b>	<b>2.4800e-003</b>	<b>0.0625</b>	<b>0.0000</b>	<b>254.7478</b>	<b>254.7478</b>	<b>6.6600e-003</b>	<b>0.0205</b>	<b>261.0332</b>

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**3.6 Paving - 2023**

**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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0220</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0269</b>	<b>20.0269</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

**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	5.2000e-004	3.9000e-004	4.8800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2845	1.2845	3.0000e-005	3.0000e-005	1.2958
<b>Total</b>	<b>5.2000e-004</b>	<b>3.9000e-004</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2958</b>

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**3.6 Paving - 2023**

**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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0220</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0268</b>	<b>20.0268</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

**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	5.2000e-004	3.9000e-004	4.8800e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2845	1.2845	3.0000e-005	3.0000e-005	1.2958
<b>Total</b>	<b>5.2000e-004</b>	<b>3.9000e-004</b>	<b>4.8800e-003</b>	<b>1.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2958</b>

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

**3.7 Architectural Coating - 2023**

**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	0.1478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0174	0.0242	4.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	3.4043	3.4043	2.0000e-004	0.0000	3.4094
<b>Total</b>	<b>0.1503</b>	<b>0.0174</b>	<b>0.0242</b>	<b>4.0000e-005</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.4043</b>	<b>3.4043</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.4094</b>

**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	1.3900e-003	1.0400e-003	0.0130	4.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1600e-003	2.0000e-005	1.1900e-003	0.0000	3.4254	3.4254	9.0000e-005	9.0000e-005	3.4554
<b>Total</b>	<b>1.3900e-003</b>	<b>1.0400e-003</b>	<b>0.0130</b>	<b>4.0000e-005</b>	<b>4.3900e-003</b>	<b>2.0000e-005</b>	<b>4.4100e-003</b>	<b>1.1600e-003</b>	<b>2.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>3.4254</b>	<b>3.4254</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.4554</b>

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**3.7 Architectural Coating - 2023**

**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	0.1478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0174	0.0242	4.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	3.4043	3.4043	2.0000e-004	0.0000	3.4094
<b>Total</b>	<b>0.1503</b>	<b>0.0174</b>	<b>0.0242</b>	<b>4.0000e-005</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.4043</b>	<b>3.4043</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.4094</b>

**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	1.3900e-003	1.0400e-003	0.0130	4.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1600e-003	2.0000e-005	1.1900e-003	0.0000	3.4254	3.4254	9.0000e-005	9.0000e-005	3.4554
<b>Total</b>	<b>1.3900e-003</b>	<b>1.0400e-003</b>	<b>0.0130</b>	<b>4.0000e-005</b>	<b>4.3900e-003</b>	<b>2.0000e-005</b>	<b>4.4100e-003</b>	<b>1.1600e-003</b>	<b>2.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>3.4254</b>	<b>3.4254</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.4554</b>



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**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	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







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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive 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	1.0000e-005	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	1.0000e-005	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

**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	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

5770 Industrial Parkway Project Construction - San Bernardino-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**

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	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

5770 Industrial Parkway Project Construction - San Bernardino-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**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

5770 Industrial Parkway Project Construction - San Bernardino-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**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Annual

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

**11.0 Vegetation**

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5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**5770 Industrial Parkway Project Construction**

**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Construction Analysis Only.

Fleet Mix -

Consumer Products - Construction Analysis only

Area Coating - Construction Analysis Only

Landscape Equipment - Construction Analysis Only

## 5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

Project Characteristics -

Energy Use - Construction analysis only

Water And Wastewater - Construction analysis only

Solid Waste - Construction analysis only

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation -

Land Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	1.98E-05	1E-10
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-10
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-11
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialImported	0.00	33,510.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.09	0.00

## 5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

tblSolidWaste	SolidWasteGenerationRate	64.68	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblWater	IndoorWaterUseRate	12,062,000.00	0.00
tblWater	OutdoorWaterUseRate	1,179,566.54	0.00

**2.0 Emissions Summary**

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5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2375	57.9280	34.8309	0.1463	19.8582	1.8360	21.4718	10.1558	1.6964	11.6404	0.0000	15,164.35 16	15,164.35 16	2.3326	1.4224	15,646.54 37
2023	15.1894	18.6853	26.0904	0.0631	2.7640	0.7801	3.5441	0.7445	0.7331	1.4776	0.0000	6,318.077 6	6,318.077 6	0.7559	0.2724	6,418.158 2
<b>Maximum</b>	<b>15.1894</b>	<b>57.9280</b>	<b>34.8309</b>	<b>0.1463</b>	<b>19.8582</b>	<b>1.8360</b>	<b>21.4718</b>	<b>10.1558</b>	<b>1.6964</b>	<b>11.6404</b>	<b>0.0000</b>	<b>15,164.35 16</b>	<b>15,164.35 16</b>	<b>2.3326</b>	<b>1.4224</b>	<b>15,646.54 37</b>

**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	4.2375	57.9280	34.8309	0.1463	7.8674	1.8360	9.4811	3.9933	1.6964	5.4779	0.0000	15,164.35 16	15,164.35 16	2.3326	1.4224	15,646.54 37
2023	15.1894	18.6853	26.0904	0.0631	2.7640	0.7801	3.5441	0.7445	0.7331	1.4776	0.0000	6,318.077 6	6,318.077 6	0.7559	0.2724	6,418.158 2
<b>Maximum</b>	<b>15.1894</b>	<b>57.9280</b>	<b>34.8309</b>	<b>0.1463</b>	<b>7.8674</b>	<b>1.8360</b>	<b>9.4811</b>	<b>3.9933</b>	<b>1.6964</b>	<b>5.4779</b>	<b>0.0000</b>	<b>15,164.35 16</b>	<b>15,164.35 16</b>	<b>2.3326</b>	<b>1.4224</b>	<b>15,646.54 37</b>

## 5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.00	0.00	47.93	56.53	0.00	46.98	0.00	0.00	0.00	0.00	0.00	0.00

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0145</b>

**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	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0145</b>

5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/28/2022	5	20	
2	Site Preparation	Site Preparation	4/29/2022	5/12/2022	5	10	
3	Grading	Grading	5/13/2022	6/23/2022	5	30	
4	Building Construction	Building Construction	6/24/2022	8/17/2023	5	300	
5	Paving	Paving	8/18/2023	9/14/2023	5	20	
6	Architectural Coating	Architectural Coating	9/15/2023	10/12/2023	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	634.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,189.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	202.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					6.8616	0.0000	6.8616	1.0389	0.0000	1.0389			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>6.8616</b>	<b>1.2427</b>	<b>8.1042</b>	<b>1.0389</b>	<b>1.1553</b>	<b>2.1942</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.2 Demolition - 2022**

**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	0.1199	4.3205	1.1273	0.0186	0.5551	0.0454	0.6005	0.1522	0.0434	0.1957		2,030.274 3	2,030.274 3	0.0869	0.3217	2,128.324 2
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	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
<b>Total</b>	<b>0.1834</b>	<b>4.3607</b>	<b>1.7452</b>	<b>0.0202</b>	<b>0.7228</b>	<b>0.0463</b>	<b>0.7691</b>	<b>0.1967</b>	<b>0.0442</b>	<b>0.2409</b>		<b>2,187.709 5</b>	<b>2,187.709 5</b>	<b>0.0910</b>	<b>0.3257</b>	<b>2,287.029 2</b>

**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					2.6760	0.0000	2.6760	0.4052	0.0000	0.4052			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>2.6760</b>	<b>1.2427</b>	<b>3.9187</b>	<b>0.4052</b>	<b>1.1553</b>	<b>1.5604</b>	<b>0.0000</b>	<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.2 Demolition - 2022**

**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	0.1199	4.3205	1.1273	0.0186	0.5551	0.0454	0.6005	0.1522	0.0434	0.1957		2,030.274 3	2,030.274 3	0.0869	0.3217	2,128.324 2
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	0.0635	0.0402	0.6179	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		157.4352	157.4352	4.0900e-003	3.9200e-003	158.7050
<b>Total</b>	<b>0.1834</b>	<b>4.3607</b>	<b>1.7452</b>	<b>0.0202</b>	<b>0.7228</b>	<b>0.0463</b>	<b>0.7691</b>	<b>0.1967</b>	<b>0.0442</b>	<b>0.2409</b>		<b>2,187.709 5</b>	<b>2,187.709 5</b>	<b>0.0910</b>	<b>0.3257</b>	<b>2,287.029 2</b>

**3.3 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>



5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.3 Site Preparation - 2022**

**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	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
<b>Total</b>	<b>0.0762</b>	<b>0.0483</b>	<b>0.7415</b>	<b>1.8600e-003</b>	<b>0.2012</b>	<b>1.0600e-003</b>	<b>0.2023</b>	<b>0.0534</b>	<b>9.7000e-004</b>	<b>0.0543</b>		<b>188.9222</b>	<b>188.9222</b>	<b>4.9100e-003</b>	<b>4.7000e-003</b>	<b>190.4461</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.6662</b>	<b>1.6126</b>	<b>9.2788</b>	<b>3.9400</b>	<b>1.4836</b>	<b>5.4235</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.3 Site Preparation - 2022**

**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	0.0762	0.0483	0.7415	1.8600e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		188.9222	188.9222	4.9100e-003	4.7000e-003	190.4461
<b>Total</b>	<b>0.0762</b>	<b>0.0483</b>	<b>0.7415</b>	<b>1.8600e-003</b>	<b>0.2012</b>	<b>1.0600e-003</b>	<b>0.2023</b>	<b>0.0534</b>	<b>9.7000e-004</b>	<b>0.0543</b>		<b>188.9222</b>	<b>188.9222</b>	<b>4.9100e-003</b>	<b>4.7000e-003</b>	<b>190.4461</b>

**3.4 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					9.3299	0.0000	9.3299	3.6729	0.0000	3.6729			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.3299</b>	<b>1.6349</b>	<b>10.9648</b>	<b>3.6729</b>	<b>1.5041</b>	<b>5.1770</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.4 Grading - 2022**

**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	0.5280	19.0309	4.9654	0.0821	2.4453	0.1999	2.6452	0.6705	0.1913	0.8618		8,943.0275	8,943.0275	0.3829	1.4172	9,374.9211
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	0.0847	0.0537	0.8239	2.0600e-003	0.2236	1.1700e-003	0.2247	0.0593	1.0800e-003	0.0604		209.9136	209.9136	5.4600e-003	5.2200e-003	211.6067
<b>Total</b>	<b>0.6127</b>	<b>19.0845</b>	<b>5.7894</b>	<b>0.0842</b>	<b>2.6689</b>	<b>0.2011</b>	<b>2.8700</b>	<b>0.7298</b>	<b>0.1923</b>	<b>0.9222</b>		<b>9,152.9410</b>	<b>9,152.9410</b>	<b>0.3884</b>	<b>1.4224</b>	<b>9,586.5279</b>

**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					3.6387	0.0000	3.6387	1.4324	0.0000	1.4324			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.6387</b>	<b>1.6349</b>	<b>5.2736</b>	<b>1.4324</b>	<b>1.5041</b>	<b>2.9365</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.4 Grading - 2022**

**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	0.5280	19.0309	4.9654	0.0821	2.4453	0.1999	2.6452	0.6705	0.1913	0.8618		8,943.0275	8,943.0275	0.3829	1.4172	9,374.9211
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	0.0847	0.0537	0.8239	2.0600e-003	0.2236	1.1700e-003	0.2247	0.0593	1.0800e-003	0.0604		209.9136	209.9136	5.4600e-003	5.2200e-003	211.6067
<b>Total</b>	<b>0.6127</b>	<b>19.0845</b>	<b>5.7894</b>	<b>0.0842</b>	<b>2.6689</b>	<b>0.2011</b>	<b>2.8700</b>	<b>0.7298</b>	<b>0.1923</b>	<b>0.9222</b>		<b>9,152.9410</b>	<b>9,152.9410</b>	<b>0.3884</b>	<b>1.4224</b>	<b>9,586.5279</b>

**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	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>		<b>2,737.1520</b>	<b>2,737.1520</b>	<b>0.6711</b>		<b>2,753.9288</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.5 Building Construction - 2022**

**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	0.1377	3.4594	1.2696	0.0147	0.5061	0.0412	0.5473	0.1457	0.0394	0.1851		1,580.5438	1,580.5438	0.0427	0.2339	1,651.3122
Worker	0.8555	0.5419	8.3216	0.0208	2.2579	0.0119	2.2697	0.5988	0.0109	0.6097		2,120.1272	2,120.1272	0.0551	0.0528	2,137.2279
<b>Total</b>	<b>0.9932</b>	<b>4.0013</b>	<b>9.5912</b>	<b>0.0356</b>	<b>2.7640</b>	<b>0.0530</b>	<b>2.8170</b>	<b>0.7445</b>	<b>0.0503</b>	<b>0.7948</b>		<b>3,700.6710</b>	<b>3,700.6710</b>	<b>0.0979</b>	<b>0.2867</b>	<b>3,788.5401</b>

**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	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>	<b>0.0000</b>	<b>2,737.1520</b>	<b>2,737.1520</b>	<b>0.6711</b>		<b>2,753.9288</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.5 Building Construction - 2022**

**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	0.1377	3.4594	1.2696	0.0147	0.5061	0.0412	0.5473	0.1457	0.0394	0.1851		1,580.5438	1,580.5438	0.0427	0.2339	1,651.3122
Worker	0.8555	0.5419	8.3216	0.0208	2.2579	0.0119	2.2697	0.5988	0.0109	0.6097		2,120.1272	2,120.1272	0.0551	0.0528	2,137.2279
<b>Total</b>	<b>0.9932</b>	<b>4.0013</b>	<b>9.5912</b>	<b>0.0356</b>	<b>2.7640</b>	<b>0.0530</b>	<b>2.8170</b>	<b>0.7445</b>	<b>0.0503</b>	<b>0.7948</b>		<b>3,700.6710</b>	<b>3,700.6710</b>	<b>0.0979</b>	<b>0.2867</b>	<b>3,788.5401</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288
<b>Total</b>	<b>1.6735</b>	<b>15.4377</b>	<b>17.3101</b>	<b>0.0288</b>		<b>0.7481</b>	<b>0.7481</b>		<b>0.7029</b>	<b>0.7029</b>		<b>2,738.1535</b>	<b>2,738.1535</b>	<b>0.6670</b>		<b>2,754.8288</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**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	0.0925	2.7710	1.1627	0.0141	0.5061	0.0208	0.5270	0.1457	0.0199	0.1657		1,516.153 6	1,516.153 6	0.0396	0.2239	1,583.864 8
Worker	0.7899	0.4766	7.6176	0.0202	2.2579	0.0112	2.2690	0.5988	0.0103	0.6091		2,063.770 5	2,063.770 5	0.0493	0.0485	2,079.464 6
<b>Total</b>	<b>0.8823</b>	<b>3.2476</b>	<b>8.7804</b>	<b>0.0343</b>	<b>2.7640</b>	<b>0.0320</b>	<b>2.7960</b>	<b>0.7445</b>	<b>0.0302</b>	<b>0.7747</b>		<b>3,579.924 1</b>	<b>3,579.924 1</b>	<b>0.0889</b>	<b>0.2724</b>	<b>3,663.329 4</b>

**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	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.153 5	2,738.153 5	0.6670		2,754.828 8
<b>Total</b>	<b>1.6735</b>	<b>15.4377</b>	<b>17.3101</b>	<b>0.0288</b>		<b>0.7481</b>	<b>0.7481</b>		<b>0.7029</b>	<b>0.7029</b>	<b>0.0000</b>	<b>2,738.153 5</b>	<b>2,738.153 5</b>	<b>0.6670</b>		<b>2,754.828 8</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**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	0.0925	2.7710	1.1627	0.0141	0.5061	0.0208	0.5270	0.1457	0.0199	0.1657		1,516.1536	1,516.1536	0.0396	0.2239	1,583.8648
Worker	0.7899	0.4766	7.6176	0.0202	2.2579	0.0112	2.2690	0.5988	0.0103	0.6091		2,063.7705	2,063.7705	0.0493	0.0485	2,079.4646
<b>Total</b>	<b>0.8823</b>	<b>3.2476</b>	<b>8.7804</b>	<b>0.0343</b>	<b>2.7640</b>	<b>0.0320</b>	<b>2.7960</b>	<b>0.7445</b>	<b>0.0302</b>	<b>0.7747</b>		<b>3,579.9241</b>	<b>3,579.9241</b>	<b>0.0889</b>	<b>0.2724</b>	<b>3,663.3294</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1960</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.6 Paving - 2023**

**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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
<b>Total</b>	<b>0.0587</b>	<b>0.0354</b>	<b>0.5657</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.6000e-004</b>	<b>0.0452</b>		<b>153.2503</b>	<b>153.2503</b>	<b>3.6600e-003</b>	<b>3.6000e-003</b>	<b>154.4157</b>

**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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1960</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.6 Paving - 2023**

**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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
<b>Total</b>	<b>0.0587</b>	<b>0.0354</b>	<b>0.5657</b>	<b>1.5000e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.6000e-004</b>	<b>0.0452</b>		<b>153.2503</b>	<b>153.2503</b>	<b>3.6600e-003</b>	<b>3.6000e-003</b>	<b>154.4157</b>

**3.7 Architectural Coating - 2023**

**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	14.7774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>15.0330</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.7 Architectural Coating - 2023**

**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	0.1564	0.0944	1.5084	3.9900e-003	0.4471	2.2100e-003	0.4493	0.1186	2.0300e-003	0.1206		408.6674	408.6674	9.7600e-003	9.6100e-003	411.7752
<b>Total</b>	<b>0.1564</b>	<b>0.0944</b>	<b>1.5084</b>	<b>3.9900e-003</b>	<b>0.4471</b>	<b>2.2100e-003</b>	<b>0.4493</b>	<b>0.1186</b>	<b>2.0300e-003</b>	<b>0.1206</b>		<b>408.6674</b>	<b>408.6674</b>	<b>9.7600e-003</b>	<b>9.6100e-003</b>	<b>411.7752</b>

**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	14.7774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>15.0330</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**3.7 Architectural Coating - 2023**

**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	0.1564	0.0944	1.5084	3.9900e-003	0.4471	2.2100e-003	0.4493	0.1186	2.0300e-003	0.1206		408.6674	408.6674	9.7600e-003	9.6100e-003	411.7752
<b>Total</b>	<b>0.1564</b>	<b>0.0944</b>	<b>1.5084</b>	<b>3.9900e-003</b>	<b>0.4471</b>	<b>2.2100e-003</b>	<b>0.4493</b>	<b>0.1186</b>	<b>2.0300e-003</b>	<b>0.1206</b>		<b>408.6674</b>	<b>408.6674</b>	<b>9.7600e-003</b>	<b>9.6100e-003</b>	<b>411.7752</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
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	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
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**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	0.0000	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

5770 Industrial Parkway Project Construction - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	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 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

5770 Industrial Parkway Project Construction - San Bernardino-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 - Natural Gas**

Mitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	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 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Construction - San Bernardino-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**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**5770 Industrial Parkway Project Construction**

**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Construction Analysis Only.

Fleet Mix -

Consumer Products - Construction Analysis only

Area Coating - Construction Analysis Only

Landscape Equipment - Construction Analysis Only

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

Project Characteristics -

Energy Use - Construction analysis only

Water And Wastewater - Construction analysis only

Solid Waste - Construction analysis only

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Area Mitigation -

Land Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	1.98E-05	1E-10
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-10
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	1E-11
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialImported	0.00	33,510.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.09	0.00

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

tblSolidWaste	SolidWasteGenerationRate	64.68	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblWater	IndoorWaterUseRate	12,062,000.00	0.00
tblWater	OutdoorWaterUseRate	1,179,566.54	0.00

**2.0 Emissions Summary**

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5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2125	58.8814	34.7959	0.1461	19.8582	1.8363	21.4718	10.1558	1.6967	11.6404	0.0000	15,151.23 29	15,151.23 29	2.3315	1.4236	15,633.76 43
2023	15.1836	18.8657	24.7784	0.0613	2.7640	0.7801	3.5442	0.7445	0.7332	1.4777	0.0000	6,127.707 6	6,127.707 6	0.7557	0.2747	6,228.454 0
<b>Maximum</b>	<b>15.1836</b>	<b>58.8814</b>	<b>34.7959</b>	<b>0.1461</b>	<b>19.8582</b>	<b>1.8363</b>	<b>21.4718</b>	<b>10.1558</b>	<b>1.6967</b>	<b>11.6404</b>	<b>0.0000</b>	<b>15,151.23 29</b>	<b>15,151.23 29</b>	<b>2.3315</b>	<b>1.4236</b>	<b>15,633.76 43</b>

**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	4.2125	58.8814	34.7959	0.1461	7.8674	1.8363	9.4811	3.9933	1.6967	5.4779	0.0000	15,151.23 29	15,151.23 29	2.3315	1.4236	15,633.76 43
2023	15.1836	18.8657	24.7784	0.0613	2.7640	0.7801	3.5442	0.7445	0.7332	1.4777	0.0000	6,127.707 6	6,127.707 6	0.7557	0.2747	6,228.454 0
<b>Maximum</b>	<b>15.1836</b>	<b>58.8814</b>	<b>34.7959</b>	<b>0.1461</b>	<b>7.8674</b>	<b>1.8363</b>	<b>9.4811</b>	<b>3.9933</b>	<b>1.6967</b>	<b>5.4779</b>	<b>0.0000</b>	<b>15,151.23 29</b>	<b>15,151.23 29</b>	<b>2.3315</b>	<b>1.4236</b>	<b>15,633.76 43</b>





5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0145</b>

**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	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0145</b>

5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/28/2022	5	20	
2	Site Preparation	Site Preparation	4/29/2022	5/12/2022	5	10	
3	Grading	Grading	5/13/2022	6/23/2022	5	30	
4	Building Construction	Building Construction	6/24/2022	8/17/2023	5	300	
5	Paving	Paving	8/18/2023	9/14/2023	5	20	
6	Architectural Coating	Architectural Coating	9/15/2023	10/12/2023	5	20	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	634.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,189.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	202.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					6.8616	0.0000	6.8616	1.0389	0.0000	1.0389			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>6.8616</b>	<b>1.2427</b>	<b>8.1042</b>	<b>1.0389</b>	<b>1.1553</b>	<b>2.1942</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.2 Demolition - 2022**

**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	0.1149	4.5363	1.1527	0.0187	0.5551	0.0455	0.6006	0.1522	0.0435	0.1957		2,031.790 2	2,031.790 2	0.0867	0.3220	2,129.905 7
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	0.0610	0.0423	0.5076	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		142.5884	142.5884	4.0800e-003	4.0400e-003	143.8959
<b>Total</b>	<b>0.1760</b>	<b>4.5786</b>	<b>1.6603</b>	<b>0.0201</b>	<b>0.7228</b>	<b>0.0463</b>	<b>0.7691</b>	<b>0.1967</b>	<b>0.0443</b>	<b>0.2410</b>		<b>2,174.378 5</b>	<b>2,174.378 5</b>	<b>0.0908</b>	<b>0.3260</b>	<b>2,273.801 5</b>

**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					2.6760	0.0000	2.6760	0.4052	0.0000	0.4052			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>2.6760</b>	<b>1.2427</b>	<b>3.9187</b>	<b>0.4052</b>	<b>1.1553</b>	<b>1.5604</b>	<b>0.0000</b>	<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.2 Demolition - 2022**

**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	0.1149	4.5363	1.1527	0.0187	0.5551	0.0455	0.6006	0.1522	0.0435	0.1957		2,031.790 2	2,031.790 2	0.0867	0.3220	2,129.905 7
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	0.0610	0.0423	0.5076	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		142.5884	142.5884	4.0800e-003	4.0400e-003	143.8959
<b>Total</b>	<b>0.1760</b>	<b>4.5786</b>	<b>1.6603</b>	<b>0.0201</b>	<b>0.7228</b>	<b>0.0463</b>	<b>0.7691</b>	<b>0.1967</b>	<b>0.0443</b>	<b>0.2410</b>		<b>2,174.378 5</b>	<b>2,174.378 5</b>	<b>0.0908</b>	<b>0.3260</b>	<b>2,273.801 5</b>

**3.3 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.3 Site Preparation - 2022**

**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	0.0732	0.0508	0.6091	1.6800e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		171.1060	171.1060	4.9000e-003	4.8500e-003	172.6750
<b>Total</b>	<b>0.0732</b>	<b>0.0508</b>	<b>0.6091</b>	<b>1.6800e-003</b>	<b>0.2012</b>	<b>1.0600e-003</b>	<b>0.2023</b>	<b>0.0534</b>	<b>9.7000e-004</b>	<b>0.0543</b>		<b>171.1060</b>	<b>171.1060</b>	<b>4.9000e-003</b>	<b>4.8500e-003</b>	<b>172.6750</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.6662</b>	<b>1.6126</b>	<b>9.2788</b>	<b>3.9400</b>	<b>1.4836</b>	<b>5.4235</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.3 Site Preparation - 2022**

**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	0.0732	0.0508	0.6091	1.6800e-003	0.2012	1.0600e-003	0.2023	0.0534	9.7000e-004	0.0543		171.1060	171.1060	4.9000e-003	4.8500e-003	172.6750
<b>Total</b>	<b>0.0732</b>	<b>0.0508</b>	<b>0.6091</b>	<b>1.6800e-003</b>	<b>0.2012</b>	<b>1.0600e-003</b>	<b>0.2023</b>	<b>0.0534</b>	<b>9.7000e-004</b>	<b>0.0543</b>		<b>171.1060</b>	<b>171.1060</b>	<b>4.9000e-003</b>	<b>4.8500e-003</b>	<b>172.6750</b>

**3.4 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					9.3299	0.0000	9.3299	3.6729	0.0000	3.6729			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.3299</b>	<b>1.6349</b>	<b>10.9648</b>	<b>3.6729</b>	<b>1.5041</b>	<b>5.1770</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>



5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.4 Grading - 2022**

**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	0.5063	19.9815	5.0776	0.0822	2.4453	0.2002	2.6455	0.6705	0.1916	0.8621		8,949.7046	8,949.7046	0.3819	1.4182	9,381.8873
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	0.0814	0.0564	0.6768	1.8700e-003	0.2236	1.1700e-003	0.2247	0.0593	1.0800e-003	0.0604		190.1178	190.1178	5.4400e-003	5.3900e-003	191.8611
<b>Total</b>	<b>0.5877</b>	<b>20.0380</b>	<b>5.7544</b>	<b>0.0841</b>	<b>2.6689</b>	<b>0.2014</b>	<b>2.8703</b>	<b>0.7298</b>	<b>0.1926</b>	<b>0.9225</b>		<b>9,139.8224</b>	<b>9,139.8224</b>	<b>0.3873</b>	<b>1.4236</b>	<b>9,573.7484</b>

**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					3.6387	0.0000	3.6387	1.4324	0.0000	1.4324			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.6387</b>	<b>1.6349</b>	<b>5.2736</b>	<b>1.4324</b>	<b>1.5041</b>	<b>2.9365</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.4 Grading - 2022**

**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	0.5063	19.9815	5.0776	0.0822	2.4453	0.2002	2.6455	0.6705	0.1916	0.8621		8,949.7046	8,949.7046	0.3819	1.4182	9,381.8873
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	0.0814	0.0564	0.6768	1.8700e-003	0.2236	1.1700e-003	0.2247	0.0593	1.0800e-003	0.0604		190.1178	190.1178	5.4400e-003	5.3900e-003	191.8611
<b>Total</b>	<b>0.5877</b>	<b>20.0380</b>	<b>5.7544</b>	<b>0.0841</b>	<b>2.6689</b>	<b>0.2014</b>	<b>2.8703</b>	<b>0.7298</b>	<b>0.1926</b>	<b>0.9225</b>		<b>9,139.8224</b>	<b>9,139.8224</b>	<b>0.3873</b>	<b>1.4236</b>	<b>9,573.7484</b>

**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	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>		<b>2,737.1520</b>	<b>2,737.1520</b>	<b>0.6711</b>		<b>2,753.9288</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.5 Building Construction - 2022**

**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	0.1323	3.6316	1.3143	0.0148	0.5061	0.0413	0.5474	0.1457	0.0395	0.1852		1,582.287 2	1,582.287 2	0.0425	0.2343	1,653.169 8
Worker	0.8219	0.5699	6.8357	0.0189	2.2579	0.0119	2.2697	0.5988	0.0109	0.6097		1,920.189 8	1,920.189 8	0.0550	0.0545	1,937.797 4
<b>Total</b>	<b>0.9542</b>	<b>4.2016</b>	<b>8.1499</b>	<b>0.0336</b>	<b>2.7640</b>	<b>0.0531</b>	<b>2.8172</b>	<b>0.7445</b>	<b>0.0504</b>	<b>0.7950</b>		<b>3,502.477 0</b>	<b>3,502.477 0</b>	<b>0.0974</b>	<b>0.2888</b>	<b>3,590.967 2</b>

**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	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.152 0	2,737.152 0	0.6711		2,753.928 8
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>	<b>0.0000</b>	<b>2,737.152 0</b>	<b>2,737.152 0</b>	<b>0.6711</b>		<b>2,753.928 8</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.5 Building Construction - 2022**

**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	0.1323	3.6316	1.3143	0.0148	0.5061	0.0413	0.5474	0.1457	0.0395	0.1852		1,582.287 2	1,582.287 2	0.0425	0.2343	1,653.169 8
Worker	0.8219	0.5699	6.8357	0.0189	2.2579	0.0119	2.2697	0.5988	0.0109	0.6097		1,920.189 8	1,920.189 8	0.0550	0.0545	1,937.797 4
<b>Total</b>	<b>0.9542</b>	<b>4.2016</b>	<b>8.1499</b>	<b>0.0336</b>	<b>2.7640</b>	<b>0.0531</b>	<b>2.8172</b>	<b>0.7445</b>	<b>0.0504</b>	<b>0.7950</b>		<b>3,502.477 0</b>	<b>3,502.477 0</b>	<b>0.0974</b>	<b>0.2888</b>	<b>3,590.967 2</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.153 5	2,738.153 5	0.6670		2,754.828 8
<b>Total</b>	<b>1.6735</b>	<b>15.4377</b>	<b>17.3101</b>	<b>0.0288</b>		<b>0.7481</b>	<b>0.7481</b>		<b>0.7029</b>	<b>0.7029</b>		<b>2,738.153 5</b>	<b>2,738.153 5</b>	<b>0.6670</b>		<b>2,754.828 8</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.5 Building Construction - 2023**

**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	0.0860	2.9269	1.1986	0.0142	0.5061	0.0209	0.5270	0.1457	0.0200	0.1657		1,519.8305	1,519.8305	0.0393	0.2246	1,587.7410
Worker	0.7609	0.5011	6.2697	0.0183	2.2579	0.0112	2.2690	0.5988	0.0103	0.6091		1,869.7236	1,869.7236	0.0494	0.0501	1,885.8842
<b>Total</b>	<b>0.8469</b>	<b>3.4280</b>	<b>7.4683</b>	<b>0.0324</b>	<b>2.7640</b>	<b>0.0321</b>	<b>2.7961</b>	<b>0.7445</b>	<b>0.0303</b>	<b>0.7748</b>		<b>3,389.5540</b>	<b>3,389.5540</b>	<b>0.0887</b>	<b>0.2747</b>	<b>3,473.6251</b>

**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	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288
<b>Total</b>	<b>1.6735</b>	<b>15.4377</b>	<b>17.3101</b>	<b>0.0288</b>		<b>0.7481</b>	<b>0.7481</b>		<b>0.7029</b>	<b>0.7029</b>	<b>0.0000</b>	<b>2,738.1535</b>	<b>2,738.1535</b>	<b>0.6670</b>		<b>2,754.8288</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.5 Building Construction - 2023**

**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	0.0860	2.9269	1.1986	0.0142	0.5061	0.0209	0.5270	0.1457	0.0200	0.1657		1,519.8305	1,519.8305	0.0393	0.2246	1,587.7410
Worker	0.7609	0.5011	6.2697	0.0183	2.2579	0.0112	2.2690	0.5988	0.0103	0.6091		1,869.7236	1,869.7236	0.0494	0.0501	1,885.8842
<b>Total</b>	<b>0.8469</b>	<b>3.4280</b>	<b>7.4683</b>	<b>0.0324</b>	<b>2.7640</b>	<b>0.0321</b>	<b>2.7961</b>	<b>0.7445</b>	<b>0.0303</b>	<b>0.7748</b>		<b>3,389.5540</b>	<b>3,389.5540</b>	<b>0.0887</b>	<b>0.2747</b>	<b>3,473.6251</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1960</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.6 Paving - 2023**

**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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
<b>Total</b>	<b>0.0565</b>	<b>0.0372</b>	<b>0.4656</b>	<b>1.3600e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.6000e-004</b>	<b>0.0452</b>		<b>138.8409</b>	<b>138.8409</b>	<b>3.6600e-003</b>	<b>3.7200e-003</b>	<b>140.0409</b>

**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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1960</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.6 Paving - 2023**

**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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
<b>Total</b>	<b>0.0565</b>	<b>0.0372</b>	<b>0.4656</b>	<b>1.3600e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.6000e-004</b>	<b>0.0452</b>		<b>138.8409</b>	<b>138.8409</b>	<b>3.6600e-003</b>	<b>3.7200e-003</b>	<b>140.0409</b>

**3.7 Architectural Coating - 2023**

**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	14.7774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>15.0330</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>



5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.7 Architectural Coating - 2023**

**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	0.1507	0.0992	1.2415	3.6200e-003	0.4471	2.2100e-003	0.4493	0.1186	2.0300e-003	0.1206		370.2423	370.2423	9.7700e-003	9.9200e-003	373.4424
<b>Total</b>	<b>0.1507</b>	<b>0.0992</b>	<b>1.2415</b>	<b>3.6200e-003</b>	<b>0.4471</b>	<b>2.2100e-003</b>	<b>0.4493</b>	<b>0.1186</b>	<b>2.0300e-003</b>	<b>0.1206</b>		<b>370.2423</b>	<b>370.2423</b>	<b>9.7700e-003</b>	<b>9.9200e-003</b>	<b>373.4424</b>

**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	14.7774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>15.0330</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**3.7 Architectural Coating - 2023**

**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	0.1507	0.0992	1.2415	3.6200e-003	0.4471	2.2100e-003	0.4493	0.1186	2.0300e-003	0.1206		370.2423	370.2423	9.7700e-003	9.9200e-003	373.4424
<b>Total</b>	<b>0.1507</b>	<b>0.0992</b>	<b>1.2415</b>	<b>3.6200e-003</b>	<b>0.4471</b>	<b>2.2100e-003</b>	<b>0.4493</b>	<b>0.1186</b>	<b>2.0300e-003</b>	<b>0.1206</b>		<b>370.2423</b>	<b>370.2423</b>	<b>9.7700e-003</b>	<b>9.9200e-003</b>	<b>373.4424</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
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	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
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**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	0.0000	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

5770 Industrial Parkway Project Construction - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	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 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

5770 Industrial Parkway Project Construction - San Bernardino-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 - Natural Gas**

Mitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	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 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

5770 Industrial Parkway Project Construction - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	6.3000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Construction - San Bernardino-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**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>6.3000e-004</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



5770 Industrial Parkway Project Construction - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Annual

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

**5770 Industrial Parkway Project Auto**

**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Construction Phase - Auto Operation Only
- Off-road Equipment - Auto Operation Only
- Trips and VMT - Auto Operation Only
- Architectural Coating -
- Vehicle Trips - Auto Operation Only, trip rates from project trip generation (EPD Solutions 2021)
- Fleet Mix - Auto Operation Only, trip splits from CalEEMod defaults
- Consumer Products -
- Area Coating -
- Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Annual

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

Land Use -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	4/4/2023	3/7/2023
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.28
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	2.28
tblVehicleTrips	WD_TR	0.78	0.00



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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	0.2435	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Energy	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	181.7526	181.7526	9.4700e-003	2.5900e-003	182.7607
Mobile	0.0353	0.0447	0.5580	1.7000e-003	0.1962	9.4000e-004	0.1972	0.0521	8.6000e-004	0.0530	0.0000	158.2042	158.2042	4.2100e-003	4.3100e-003	159.5931
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.8267	30.1779	34.0046	0.3956	9.5900e-003	46.7519
<b>Total</b>	<b>0.2879</b>	<b>0.1274</b>	<b>0.6282</b>	<b>2.2000e-003</b>	<b>0.1962</b>	<b>7.2200e-003</b>	<b>0.2034</b>	<b>0.0521</b>	<b>7.1400e-003</b>	<b>0.0592</b>	<b>16.9744</b>	<b>370.1362</b>	<b>387.1106</b>	<b>1.1863</b>	<b>0.0165</b>	<b>421.6803</b>

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2287	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Energy	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	181.7526	181.7526	9.4700e-003	2.5900e-003	182.7607
Mobile	0.0353	0.0447	0.5580	1.7000e-003	0.1962	9.4000e-004	0.1972	0.0521	8.6000e-004	0.0530	0.0000	158.2042	158.2042	4.2100e-003	4.3100e-003	159.5931
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.8267	30.1779	34.0046	0.3956	9.5900e-003	46.7519
<b>Total</b>	<b>0.2731</b>	<b>0.1274</b>	<b>0.6282</b>	<b>2.2000e-003</b>	<b>0.1962</b>	<b>7.2200e-003</b>	<b>0.2034</b>	<b>0.0521</b>	<b>7.1400e-003</b>	<b>0.0592</b>	<b>16.9744</b>	<b>370.1362</b>	<b>387.1106</b>	<b>1.1863</b>	<b>0.0165</b>	<b>421.6803</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>5.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Auto Operation Only	Architectural Coating	3/8/2023	3/7/2023	5	0	

**Acres of Grading (Site Preparation Phase): 0**







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

**3.2 Auto Operation Only - 2023**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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

Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
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**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	91.7634	91.7634	7.7500e-003	9.4000e-004	92.2368
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	91.7634	91.7634	7.7500e-003	9.4000e-004	92.2368
Natural Gas Mitigated	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
Natural Gas Unmitigated	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239

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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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	1.68633e+006	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
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
<b>Total</b>		<b>9.0900e-003</b>	<b>0.0827</b>	<b>0.0694</b>	<b>5.0000e-004</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>	<b>0.0000</b>	<b>89.9891</b>	<b>89.9891</b>	<b>1.7200e-003</b>	<b>1.6500e-003</b>	<b>90.5239</b>

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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 - Natural Gas**

**Mitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	1.68633e+006	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
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
<b>Total</b>		<b>9.0900e-003</b>	<b>0.0827</b>	<b>0.0694</b>	<b>5.0000e-004</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>	<b>0.0000</b>	<b>89.9891</b>	<b>89.9891</b>	<b>1.7200e-003</b>	<b>1.6500e-003</b>	<b>90.5239</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	517427	91.7634	7.7500e-003	9.4000e-004	92.2368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>91.7634</b>	<b>7.7500e-003</b>	<b>9.4000e-004</b>	<b>92.2368</b>

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

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	517427	91.7634	7.7500e-003	9.4000e-004	92.2368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>91.7634</b>	<b>7.7500e-003</b>	<b>9.4000e-004</b>	<b>92.2368</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2287	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Unmitigated	0.2435	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-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	0.0296					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
<b>Total</b>	<b>0.2435</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5400e-003</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>



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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
<b>Total</b>	<b>0.2287</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5400e-003</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	34.0046	0.3956	9.5900e-003	46.7519
Unmitigated	34.0046	0.3956	9.5900e-003	46.7519

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.17957	2.3241	2.0000e-004	2.0000e-005	2.3361
General Heavy Industry	12.062 / 0	31.6805	0.3954	9.5700e-003	44.4158
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>34.0046</b>	<b>0.3956</b>	<b>9.5900e-003</b>	<b>46.7519</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.17957	2.3241	2.0000e-004	2.0000e-005	2.3361
General Heavy Industry	12.062 / 0	31.6805	0.3954	9.5700e-003	44.4158
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>34.0046</b>	<b>0.3956</b>	<b>9.5900e-003</b>	<b>46.7519</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.1477	0.7770	0.0000	32.5729
Unmitigated	13.1477	0.7770	0.0000	32.5729

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
General Heavy Industry	64.68	13.1295	0.7759	0.0000	32.5277
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
General Heavy Industry	64.68	13.1295	0.7759	0.0000	32.5277
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

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

**11.0 Vegetation**

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5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Summer

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

**5770 Industrial Parkway Project Auto  
San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Construction Phase - Auto Operation Only
- Off-road Equipment - Auto Operation Only
- Trips and VMT - Auto Operation Only
- Architectural Coating -
- Vehicle Trips - Auto Operation Only, trip rates from project trip generation (EPD Solutions 2021)
- Fleet Mix - Auto Operation Only, trip splits from CalEEMod defaults
- Consumer Products -
- Area Coating -
- Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Summer

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

Land Use -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	4/4/2023	3/7/2023
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.28
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	2.28
tblVehicleTrips	WD_TR	0.78	0.00







5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.2344	0.2239	3.5077	0.0101	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		1,035.4021	1,035.4021	0.0246	0.0246	1,043.3456
<b>Total</b>	<b>1.6187</b>	<b>0.6769</b>	<b>3.8945</b>	<b>0.0128</b>	<b>1.0992</b>	<b>0.0396</b>	<b>1.1387</b>	<b>0.2914</b>	<b>0.0392</b>	<b>0.3306</b>		<b>1,578.9557</b>	<b>1,578.9557</b>	<b>0.0351</b>	<b>0.0346</b>	<b>1,590.1300</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.2344	0.2239	3.5077	0.0101	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		1,035.4021	1,035.4021	0.0246	0.0246	1,043.3456
<b>Total</b>	<b>1.5377</b>	<b>0.6769</b>	<b>3.8945</b>	<b>0.0128</b>	<b>1.0992</b>	<b>0.0396</b>	<b>1.1387</b>	<b>0.2914</b>	<b>0.0392</b>	<b>0.3306</b>		<b>1,578.9557</b>	<b>1,578.9557</b>	<b>0.0351</b>	<b>0.0346</b>	<b>1,590.1300</b>

5770 Industrial Parkway Project Auto - San Bernardino-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	N2O	CO2e
Percent Reduction	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Auto Operation Only	Architectural Coating	3/8/2023	3/7/2023	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Auto Operation Only	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Auto Operation Only	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





5770 Industrial Parkway Project Auto - San Bernardino-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	0.2344	0.2239	3.5077	0.0101	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		1,035.4021	1,035.4021	0.0246	0.0246	1,043.3456
Unmitigated	0.2344	0.2239	3.5077	0.0101	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		1,035.4021	1,035.4021	0.0246	0.0246	1,043.3456

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	118.92	118.92	118.92	526,632	526,632
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>118.92</b>	<b>118.92</b>	<b>118.92</b>	<b>526,632</b>	<b>526,632</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	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

5770 Industrial Parkway Project Auto - San Bernardino-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
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.588142	0.061392	0.190416	0.160050	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700



5770 Industrial Parkway Project Auto - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Auto - San Bernardino-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**

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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Auto - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Auto - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Winter

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

**5770 Industrial Parkway Project Auto  
San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Construction Phase - Auto Operation Only
- Off-road Equipment - Auto Operation Only
- Trips and VMT - Auto Operation Only
- Architectural Coating -
- Vehicle Trips - Auto Operation Only, trip rates from project trip generation (EPD Solutions 2021)
- Fleet Mix - Auto Operation Only, trip splits from CalEEMod defaults
- Consumer Products -
- Area Coating -
- Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Winter

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

Land Use -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	4/4/2023	3/7/2023
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.28
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.09	2.28
tblVehicleTrips	WD_TR	0.78	0.00







5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1959	0.2351	2.9309	9.2000e-003	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		941.3485	941.3485	0.0252	0.0254	949.5336
<b>Total</b>	<b>1.5802</b>	<b>0.6881</b>	<b>3.3177</b>	<b>0.0119</b>	<b>1.0992</b>	<b>0.0396</b>	<b>1.1387</b>	<b>0.2914</b>	<b>0.0392</b>	<b>0.3306</b>		<b>1,484.9021</b>	<b>1,484.9021</b>	<b>0.0356</b>	<b>0.0353</b>	<b>1,496.3180</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1959	0.2351	2.9309	9.2000e-003	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		941.3485	941.3485	0.0252	0.0254	949.5336
<b>Total</b>	<b>1.4993</b>	<b>0.6881</b>	<b>3.3177</b>	<b>0.0119</b>	<b>1.0992</b>	<b>0.0396</b>	<b>1.1387</b>	<b>0.2914</b>	<b>0.0392</b>	<b>0.3306</b>		<b>1,484.9021</b>	<b>1,484.9021</b>	<b>0.0356</b>	<b>0.0353</b>	<b>1,496.3180</b>

5770 Industrial Parkway Project Auto - San Bernardino-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	N2O	CO2e
Percent Reduction	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Auto Operation Only	Architectural Coating	3/8/2023	3/7/2023	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Auto Operation Only	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Auto Operation Only	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





5770 Industrial Parkway Project Auto - San Bernardino-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	0.1959	0.2351	2.9309	9.2000e-003	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		941.3485	941.3485	0.0252	0.0254	949.5336
Unmitigated	0.1959	0.2351	2.9309	9.2000e-003	1.0992	5.1500e-003	1.1043	0.2914	4.7400e-003	0.2961		941.3485	941.3485	0.0252	0.0254	949.5336

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	118.92	118.92	118.92	526,632	526,632
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>118.92</b>	<b>118.92</b>	<b>118.92</b>	<b>526,632</b>	<b>526,632</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	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

5770 Industrial Parkway Project Auto - San Bernardino-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
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.588142	0.061392	0.190416	0.160050	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Auto - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>



5770 Industrial Parkway Project Auto - San Bernardino-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**

**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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Auto - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Auto - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Auto - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**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**

**5770 Industrial Parkway Project Trucks  
San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Construction Phase - Truck Operation Only
- Off-road Equipment - Truck Operation Only
- Trips and VMT - Truck Operation Only
- Vehicle Trips - Truck operation only, trip rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016).
- Fleet Mix - Truck Operation Only, Fleet Mix from EMFAC2017.
- Consumer Products -
- Area Coating -
- Area Mitigation - SCAQMD Rule 1113

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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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.1960e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.68
tblVehicleTrips	SU_TR	2.19	0.00



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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	0.2435	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Energy	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	181.7526	181.7526	9.4700e-003	2.5900e-003	182.7607
Mobile	0.0808	4.3784	1.1007	0.0245	0.8981	0.0448	0.9429	0.2536	0.0428	0.2964	0.0000	2,392.0409	2,392.0409	0.0786	0.3539	2,499.4593
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.8267	30.1779	34.0046	0.3956	9.5900e-003	46.7519
<b>Total</b>	<b>0.3334</b>	<b>4.4611</b>	<b>1.1709</b>	<b>0.0250</b>	<b>0.8981</b>	<b>0.0510</b>	<b>0.9492</b>	<b>0.2536</b>	<b>0.0491</b>	<b>0.3027</b>	<b>16.9744</b>	<b>2,603.9728</b>	<b>2,620.9473</b>	<b>1.2606</b>	<b>0.3661</b>	<b>2,761.5464</b>



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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2287	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Energy	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	181.7526	181.7526	9.4700e-003	2.5900e-003	182.7607
Mobile	0.0808	4.3784	1.1007	0.0245	0.8981	0.0448	0.9429	0.2536	0.0428	0.2964	0.0000	2,392.0409	2,392.0409	0.0786	0.3539	2,499.4593
Waste						0.0000	0.0000		0.0000	0.0000	13.1477	0.0000	13.1477	0.7770	0.0000	32.5729
Water						0.0000	0.0000		0.0000	0.0000	3.8267	30.1779	34.0046	0.3956	9.5900e-003	46.7519
<b>Total</b>	<b>0.3186</b>	<b>4.4611</b>	<b>1.1709</b>	<b>0.0250</b>	<b>0.8981</b>	<b>0.0510</b>	<b>0.9492</b>	<b>0.2536</b>	<b>0.0491</b>	<b>0.3027</b>	<b>16.9744</b>	<b>2,603.9728</b>	<b>2,620.9473</b>	<b>1.2606</b>	<b>0.3661</b>	<b>2,761.5464</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>4.43</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Truck Operation Only	Site Preparation	10/20/2021	10/19/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**





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

**3.2 Truck Operation Only - 2021**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0808	4.3784	1.1007	0.0245	0.8981	0.0448	0.9429	0.2536	0.0428	0.2964	0.0000	2,392.0409	2,392.0409	0.0786	0.3539	2,499.4593
Unmitigated	0.0808	4.3784	1.1007	0.0245	0.8981	0.0448	0.9429	0.2536	0.0428	0.2964	0.0000	2,392.0409	2,392.0409	0.0786	0.3539	2,499.4593

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	139.79	139.79	139.79	2,035,325	2,035,325
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>139.79</b>	<b>139.79</b>	<b>139.79</b>	<b>2,035,325</b>	<b>2,035,325</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	40.00	40.00	40.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	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**

Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
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**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	91.7634	91.7634	7.7500e-003	9.4000e-004	92.2368
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	91.7634	91.7634	7.7500e-003	9.4000e-004	92.2368
Natural Gas Mitigated	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
Natural Gas Unmitigated	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239

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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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	1.68633e+006	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
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
<b>Total</b>		<b>9.0900e-003</b>	<b>0.0827</b>	<b>0.0694</b>	<b>5.0000e-004</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>	<b>0.0000</b>	<b>89.9891</b>	<b>89.9891</b>	<b>1.7200e-003</b>	<b>1.6500e-003</b>	<b>90.5239</b>

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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 - Natural Gas**

**Mitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	1.68633e+006	9.0900e-003	0.0827	0.0694	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003	0.0000	89.9891	89.9891	1.7200e-003	1.6500e-003	90.5239
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
<b>Total</b>		<b>9.0900e-003</b>	<b>0.0827</b>	<b>0.0694</b>	<b>5.0000e-004</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>		<b>6.2800e-003</b>	<b>6.2800e-003</b>	<b>0.0000</b>	<b>89.9891</b>	<b>89.9891</b>	<b>1.7200e-003</b>	<b>1.6500e-003</b>	<b>90.5239</b>



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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	517427	91.7634	7.7500e-003	9.4000e-004	92.2368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>91.7634</b>	<b>7.7500e-003</b>	<b>9.4000e-004</b>	<b>92.2368</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	517427	91.7634	7.7500e-003	9.4000e-004	92.2368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>91.7634</b>	<b>7.7500e-003</b>	<b>9.4000e-004</b>	<b>92.2368</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2287	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
Unmitigated	0.2435	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-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	0.0296					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
<b>Total</b>	<b>0.2435</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5400e-003</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5400e-003	1.5400e-003	0.0000	0.0000	1.6400e-003
<b>Total</b>	<b>0.2287</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5400e-003</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	34.0046	0.3956	9.5900e-003	46.7519
Unmitigated	34.0046	0.3956	9.5900e-003	46.7519

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.17957	2.3241	2.0000e-004	2.0000e-005	2.3361
General Heavy Industry	12.062 / 0	31.6805	0.3954	9.5700e-003	44.4158
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>34.0046</b>	<b>0.3956</b>	<b>9.5900e-003</b>	<b>46.7519</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.17957	2.3241	2.0000e-004	2.0000e-005	2.3361
General Heavy Industry	12.062 / 0	31.6805	0.3954	9.5700e-003	44.4158
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>34.0046</b>	<b>0.3956</b>	<b>9.5900e-003</b>	<b>46.7519</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.1477	0.7770	0.0000	32.5729
Unmitigated	13.1477	0.7770	0.0000	32.5729

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
General Heavy Industry	64.68	13.1295	0.7759	0.0000	32.5277
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
General Heavy Industry	64.68	13.1295	0.7759	0.0000	32.5277
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.1477</b>	<b>0.7770</b>	<b>0.0000</b>	<b>32.5729</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

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

**11.0 Vegetation**

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5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

**5770 Industrial Parkway Project Trucks**

**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Truck Operation Only

Off-road Equipment - Truck Operation Only

Trips and VMT - Truck Operation Only

Vehicle Trips - Truck operation only, trip rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016).

Fleet Mix - Truck Operation Only, Fleet Mix from EMFAC2017.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Trucks - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.1960e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.68
tblVehicleTrips	SU_TR	2.19	0.00





5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.4524	22.7124	6.0538	0.1345	5.0157	0.2462	5.2618	1.4130	0.2355	1.6485		14,501.5499	14,501.5499	0.4769	2.1437	15,152.2916
<b>Total</b>	<b>1.8368</b>	<b>23.1654</b>	<b>6.4406</b>	<b>0.1372</b>	<b>5.0157</b>	<b>0.2806</b>	<b>5.2963</b>	<b>1.4130</b>	<b>0.2699</b>	<b>1.6830</b>		<b>15,045.1035</b>	<b>15,045.1035</b>	<b>0.4873</b>	<b>2.1537</b>	<b>15,699.0760</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.4524	22.7124	6.0538	0.1345	5.0157	0.2462	5.2618	1.4130	0.2355	1.6485		14,501.5499	14,501.5499	0.4769	2.1437	15,152.2916
<b>Total</b>	<b>1.7558</b>	<b>23.1654</b>	<b>6.4406</b>	<b>0.1372</b>	<b>5.0157</b>	<b>0.2806</b>	<b>5.2963</b>	<b>1.4130</b>	<b>0.2699</b>	<b>1.6830</b>		<b>15,045.1035</b>	<b>15,045.1035</b>	<b>0.4873</b>	<b>2.1537</b>	<b>15,699.0760</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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	N2O	CO2e
Percent Reduction	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Truck Operation Only	Site Preparation	10/20/2021	10/19/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**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

**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
Truck Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**





5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

**3.2 Truck Operation Only - 2021**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

**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	0.4524	22.7124	6.0538	0.1345	5.0157	0.2462	5.2618	1.4130	0.2355	1.6485		14,501.5499	14,501.5499	0.4769	2.1437	15,152.2916
Unmitigated	0.4524	22.7124	6.0538	0.1345	5.0157	0.2462	5.2618	1.4130	0.2355	1.6485		14,501.5499	14,501.5499	0.4769	2.1437	15,152.2916

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	139.79	139.79	139.79	2,035,325	2,035,325
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>139.79</b>	<b>139.79</b>	<b>139.79</b>	<b>2,035,325</b>	<b>2,035,325</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	40.00	40.00	40.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Trucks - San Bernardino-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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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**

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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Trucks - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

**5770 Industrial Parkway Project Trucks  
San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2023		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Truck Operation Only

Off-road Equipment - Truck Operation Only

Trips and VMT - Truck Operation Only

Vehicle Trips - Truck operation only, trip rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016).

Fleet Mix - Truck Operation Only, Fleet Mix from EMFAC2017.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Trucks - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.1960e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.68
tblVehicleTrips	SU_TR	2.19	0.00





5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.4353	23.8471	6.0937	0.1346	5.0157	0.2464	5.2620	1.4130	0.2357	1.6487		14,509.8848	14,509.8848	0.4759	2.1462	15,161.3547
<b>Total</b>	<b>1.8197</b>	<b>24.3001</b>	<b>6.4805</b>	<b>0.1373</b>	<b>5.0157</b>	<b>0.2808</b>	<b>5.2964</b>	<b>1.4130</b>	<b>0.2701</b>	<b>1.6831</b>		<b>15,053.4384</b>	<b>15,053.4384</b>	<b>0.4863</b>	<b>2.1562</b>	<b>15,708.1391</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.4353	23.8471	6.0937	0.1346	5.0157	0.2464	5.2620	1.4130	0.2357	1.6487		14,509.8848	14,509.8848	0.4759	2.1462	15,161.3547
<b>Total</b>	<b>1.7387</b>	<b>24.3001</b>	<b>6.4805</b>	<b>0.1373</b>	<b>5.0157</b>	<b>0.2808</b>	<b>5.2964</b>	<b>1.4130</b>	<b>0.2701</b>	<b>1.6831</b>		<b>15,053.4384</b>	<b>15,053.4384</b>	<b>0.4863</b>	<b>2.1562</b>	<b>15,708.1391</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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	N2O	CO2e
Percent Reduction	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Truck Operation Only	Site Preparation	10/20/2021	10/19/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**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

**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
Truck Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**



5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

**3.2 Truck Operation Only - 2021**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

**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	0.4353	23.8471	6.0937	0.1346	5.0157	0.2464	5.2620	1.4130	0.2357	1.6487		14,509.88 48	14,509.88 48	0.4759	2.1462	15,161.35 47
Unmitigated	0.4353	23.8471	6.0937	0.1346	5.0157	0.2464	5.2620	1.4130	0.2357	1.6487		14,509.88 48	14,509.88 48	0.4759	2.1462	15,161.35 47

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	139.79	139.79	139.79	2,035,325	2,035,325
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>139.79</b>	<b>139.79</b>	<b>139.79</b>	<b>2,035,325</b>	<b>2,035,325</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	40.00	40.00	40.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive 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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Trucks - San Bernardino-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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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**

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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Trucks - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Trucks - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Trucks - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

**5770 Industrial Parkway Project Auto LST  
San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Auto Operation Only

Off-road Equipment - Auto Operation Only

Trips and VMT - Auto Operation only

Vehicle Trips - Auto Operations only. Trip rate from project Trip Generation (EPD Solutions 2021). Trip Length is the onsite travel only.

Fleet Mix - Auto trips only. Vehicle split from CalEEMod Defaults.

Area Mitigation - SCAQMD Rule 1113



5770 Industrial Parkway Project Auto LST - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	0.41
tblVehicleTrips	CNW_TL	6.90	0.41
tblVehicleTrips	CW_TL	16.60	0.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.28
tblVehicleTrips	SU_TR	2.19	0.00





5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1904	0.0618	0.6211	4.9000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		50.3318	50.3318	0.0136	7.6200e-003	52.9422
<b>Total</b>	<b>1.5747</b>	<b>0.5148</b>	<b>1.0079</b>	<b>3.2100e-003</b>	<b>0.0370</b>	<b>0.0351</b>	<b>0.0721</b>	<b>9.8200e-003</b>	<b>0.0350</b>	<b>0.0449</b>		<b>593.8854</b>	<b>593.8854</b>	<b>0.0240</b>	<b>0.0176</b>	<b>599.7266</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1904	0.0618	0.6211	4.9000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		50.3318	50.3318	0.0136	7.6200e-003	52.9422
<b>Total</b>	<b>1.4937</b>	<b>0.5148</b>	<b>1.0079</b>	<b>3.2100e-003</b>	<b>0.0370</b>	<b>0.0351</b>	<b>0.0721</b>	<b>9.8200e-003</b>	<b>0.0350</b>	<b>0.0449</b>		<b>593.8854</b>	<b>593.8854</b>	<b>0.0240</b>	<b>0.0176</b>	<b>599.7266</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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	N2O	CO2e
Percent Reduction	5.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Auto Operation Only	Architectural Coating	3/8/2023	3/7/2023	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

**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
Auto Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**



5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

**3.2 Auto Operation Only - 2023**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

**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	0.1904	0.0618	0.6211	4.9000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		50.3318	50.3318	0.0136	7.6200e-003	52.9422
Unmitigated	0.1904	0.0618	0.6211	4.9000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		50.3318	50.3318	0.0136	7.6200e-003	52.9422

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	118.92	118.92	118.92	17,748	17,748
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>118.92</b>	<b>118.92</b>	<b>118.92</b>	<b>17,748</b>	<b>17,748</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	0.41	0.41	0.41	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**



5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.588142	0.061392	0.190416	0.160050	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Auto LST - San Bernardino-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 - Natural Gas**

Unmitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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 - Natural Gas**

Mitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Auto LST - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

**5770 Industrial Parkway Project Auto LST**

**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Auto Operation Only

Off-road Equipment - Auto Operation Only

Trips and VMT - Auto Operation only

Vehicle Trips - Auto Operations only. Trip rate from project Trip Generation (EPD Solutions 2021). Trip Length is the onsite travel only.

Fleet Mix - Auto trips only. Vehicle split from CalEEMod Defaults.

Area Mitigation - SCAQMD Rule 1113

5770 Industrial Parkway Project Auto LST - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.16
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	0.41
tblVehicleTrips	CNW_TL	6.90	0.41
tblVehicleTrips	CW_TL	16.60	0.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.28
tblVehicleTrips	SU_TR	2.19	0.00







5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1581	0.0654	0.6953	4.6000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		47.3476	47.3476	0.0157	7.9400e-003	50.1085
<b>Total</b>	<b>1.5424</b>	<b>0.5184</b>	<b>1.0821</b>	<b>3.1800e-003</b>	<b>0.0370</b>	<b>0.0351</b>	<b>0.0721</b>	<b>9.8200e-003</b>	<b>0.0350</b>	<b>0.0449</b>		<b>590.9012</b>	<b>590.9012</b>	<b>0.0262</b>	<b>0.0179</b>	<b>596.8930</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1581	0.0654	0.6953	4.6000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		47.3476	47.3476	0.0157	7.9400e-003	50.1085
<b>Total</b>	<b>1.4614</b>	<b>0.5184</b>	<b>1.0821</b>	<b>3.1800e-003</b>	<b>0.0370</b>	<b>0.0351</b>	<b>0.0721</b>	<b>9.8200e-003</b>	<b>0.0350</b>	<b>0.0449</b>		<b>590.9012</b>	<b>590.9012</b>	<b>0.0262</b>	<b>0.0179</b>	<b>596.8930</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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	N2O	CO2e
Percent Reduction	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Auto Operation Only	Architectural Coating	3/8/2023	3/7/2023	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 78,240; Non-Residential Outdoor: 26,080; Striped Parking Area: 23,209 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

**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
Auto Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**



5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

**3.2 Auto Operation Only - 2023**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

**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	0.1581	0.0654	0.6953	4.6000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		47.3476	47.3476	0.0157	7.9400e-003	50.1085
Unmitigated	0.1581	0.0654	0.6953	4.6000e-004	0.0370	6.5000e-004	0.0377	9.8200e-003	6.0000e-004	0.0104		47.3476	47.3476	0.0157	7.9400e-003	50.1085

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	118.92	118.92	118.92	17,748	17,748
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>118.92</b>	<b>118.92</b>	<b>118.92</b>	<b>17,748</b>	<b>17,748</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	0.41	0.41	0.41	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.588142	0.061392	0.190416	0.160050	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700



5770 Industrial Parkway Project Auto LST - San Bernardino-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 - Natural Gas**

Unmitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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 - Natural Gas**

Mitigated

	Natural Gas 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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Auto LST - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Auto LST - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Auto LST - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

**5770 Industrial Parkway Project Trucks LST**

**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2023		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Truck Operation Only

Off-road Equipment - Truck Operation Only

Trips and VMT - Truck Operation Only

Vehicle Trips - Truck operation only, trip rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016).

Fleet Mix - Truck Operation Only, Fleet Mix from EMFAC2017.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Project Characteristics -

5770 Industrial Parkway Project Trucks LST - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.1960e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	0.41
tblVehicleTrips	CNW_TL	6.90	0.41
tblVehicleTrips	CW_TL	16.60	0.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.68
tblVehicleTrips	SU_TR	2.19	0.00







5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1470	2.1984	1.8711	4.0300e-003	0.0514	3.1200e-003	0.0545	0.0145	2.9900e-003	0.0175		432.4787	432.4787	0.0128	0.0677	452.9622
<b>Total</b>	<b>1.5313</b>	<b>2.6514</b>	<b>2.2579</b>	<b>6.7500e-003</b>	<b>0.0514</b>	<b>0.0376</b>	<b>0.0890</b>	<b>0.0145</b>	<b>0.0374</b>	<b>0.0519</b>		<b>976.0322</b>	<b>976.0322</b>	<b>0.0233</b>	<b>0.0776</b>	<b>999.7467</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1470	2.1984	1.8711	4.0300e-003	0.0514	3.1200e-003	0.0545	0.0145	2.9900e-003	0.0175		432.4787	432.4787	0.0128	0.0677	452.9622
<b>Total</b>	<b>1.4504</b>	<b>2.6514</b>	<b>2.2579</b>	<b>6.7500e-003</b>	<b>0.0514</b>	<b>0.0376</b>	<b>0.0890</b>	<b>0.0145</b>	<b>0.0374</b>	<b>0.0519</b>		<b>976.0322</b>	<b>976.0322</b>	<b>0.0233</b>	<b>0.0776</b>	<b>999.7467</b>

5770 Industrial Parkway Project Trucks LST - San Bernardino-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	N2O	CO2e
Percent Reduction	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Truck Operation Only	Site Preparation	10/20/2021	10/19/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**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

**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
Truck Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**



5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

**3.2 Truck Operation Only - 2021**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

**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	0.1470	2.1984	1.8711	4.0300e-003	0.0514	3.1200e-003	0.0545	0.0145	2.9900e-003	0.0175		432.4787	432.4787	0.0128	0.0677	452.9622
Unmitigated	0.1470	2.1984	1.8711	4.0300e-003	0.0514	3.1200e-003	0.0545	0.0145	2.9900e-003	0.0175		432.4787	432.4787	0.0128	0.0677	452.9622

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	139.79	139.79	139.79	20,862	20,862
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>139.79</b>	<b>139.79</b>	<b>139.79</b>	<b>20,862</b>	<b>20,862</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	0.41	0.41	0.41	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Trucks LST - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>



5770 Industrial Parkway Project Trucks LST - San Bernardino-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**

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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

5770 Industrial Parkway Project Trucks LST - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Trucks LST - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

**5770 Industrial Parkway Project Trucks LST**

**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	52.16	1000sqft	1.20	52,160.00	0
Other Asphalt Surfaces	8.88	Acre	8.88	386,812.80	0
City Park	0.99	Acre	0.99	43,124.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2023		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Construction Phase - Truck Operation Only

Off-road Equipment - Truck Operation Only

Trips and VMT - Truck Operation Only

Vehicle Trips - Truck operation only, trip rates from project trip generation (EPD Solutions 2021). Trip Length from AQMD Warehouse Study (2016).

Fleet Mix - Truck Operation Only, Fleet Mix from EMFAC2017.

Consumer Products -

Area Coating -

Area Mitigation - SCAQMD Rule 1113

Project Characteristics -

5770 Industrial Parkway Project Trucks LST - San Bernardino-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
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.02	0.65
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.09
tblFleetMix	LHD2	7.1960e-003	0.02
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.24
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblVehicleTrips	CC_TL	8.40	0.41
tblVehicleTrips	CNW_TL	6.90	0.41
tblVehicleTrips	CW_TL	16.60	0.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	6.42	2.68
tblVehicleTrips	SU_TR	2.19	0.00







5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1311	2.3704	1.9398	4.1100e-003	0.0514	3.3000e-003	0.0547	0.0145	3.1600e-003	0.0176		440.8646	440.8646	0.0121	0.0690	461.7322
<b>Total</b>	<b>1.5154</b>	<b>2.8234</b>	<b>2.3266</b>	<b>6.8300e-003</b>	<b>0.0514</b>	<b>0.0377</b>	<b>0.0892</b>	<b>0.0145</b>	<b>0.0376</b>	<b>0.0521</b>		<b>984.4182</b>	<b>984.4182</b>	<b>0.0225</b>	<b>0.0790</b>	<b>1,008.5167</b>

**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	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
Mobile	0.1311	2.3704	1.9398	4.1100e-003	0.0514	3.3000e-003	0.0547	0.0145	3.1600e-003	0.0176		440.8646	440.8646	0.0121	0.0690	461.7322
<b>Total</b>	<b>1.4345</b>	<b>2.8234</b>	<b>2.3266</b>	<b>6.8300e-003</b>	<b>0.0514</b>	<b>0.0377</b>	<b>0.0892</b>	<b>0.0145</b>	<b>0.0376</b>	<b>0.0521</b>		<b>984.4182</b>	<b>984.4182</b>	<b>0.0225</b>	<b>0.0790</b>	<b>1,008.5167</b>

5770 Industrial Parkway Project Trucks LST - San Bernardino-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	N2O	CO2e
Percent Reduction	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Truck Operation Only	Site Preparation	10/20/2021	10/19/2021	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 8.88**

**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

**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
Truck Operation Only			0.00	0.00	14.70	6.90				

**3.1 Mitigation Measures Construction**



5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

**3.2 Truck Operation Only - 2021**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

**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	0.1311	2.3704	1.9398	4.1100e-003	0.0514	3.3000e-003	0.0547	0.0145	3.1600e-003	0.0176		440.8646	440.8646	0.0121	0.0690	461.7322
Unmitigated	0.1311	2.3704	1.9398	4.1100e-003	0.0514	3.3000e-003	0.0547	0.0145	3.1600e-003	0.0176		440.8646	440.8646	0.0121	0.0690	461.7322

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Heavy Industry	139.79	139.79	139.79	20,862	20,862
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>139.79</b>	<b>139.79</b>	<b>139.79</b>	<b>20,862</b>	<b>20,862</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Heavy Industry	0.41	0.41	0.41	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Heavy Industry	0.000000	0.000000	0.000000	0.000000	0.088235	0.022060	0.242647	0.647059	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive 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	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700

5770 Industrial Parkway Project Trucks LST - San Bernardino-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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
City Park	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
General Heavy Industry	4620.09	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

5770 Industrial Parkway Project Trucks LST - San Bernardino-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**

**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					
City Park	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
General Heavy Industry	4.62009	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.5400	543.5400	0.0104	9.9600e-003	546.7700
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
<b>Total</b>		<b>0.0498</b>	<b>0.4530</b>	<b>0.3805</b>	<b>2.7200e-003</b>		<b>0.0344</b>	<b>0.0344</b>		<b>0.0344</b>	<b>0.0344</b>		<b>543.5400</b>	<b>543.5400</b>	<b>0.0104</b>	<b>9.9600e-003</b>	<b>546.7700</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior



5770 Industrial Parkway Project Trucks LST - San Bernardino-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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2536	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
Unmitigated	1.3345	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145

**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	0.1619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.3345</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

5770 Industrial Parkway Project Trucks LST - San Bernardino-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**

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	0.0810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0136	0.0136	4.0000e-005		0.0145
<b>Total</b>	<b>1.2536</b>	<b>6.0000e-005</b>	<b>6.3300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0136</b>	<b>0.0136</b>	<b>4.0000e-005</b>		<b>0.0145</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5770 Industrial Parkway Project Trucks LST - San Bernardino-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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*APPENDIX B – FUEL CALCULATIONS*

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Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2022

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	VehClass	MdlYr	HP_Bin	Fuel	Fuel Consumption	Horsepower Hours	Fuel Rate
San Bernardino (SC)	2022	Construction and Mining - Misc - Concrete/Industri	Aggregate	Aggregate	Diesel	1730.316386	41314.35	0.041882
San Bernardino (SC)	2022	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	2070214.212	104261655.1	0.019856
San Bernardino (SC)	2022	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	229718.0803	11150651.41	0.020601
San Bernardino (SC)	2022	Construction and Mining - Tractors/Loaders/Backh	Aggregate	Aggregate	Diesel	2879963.363	150414613.2	0.019147
San Bernardino (SC)	2022	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	778149.0122	36772215.17	0.021161
San Bernardino (SC)	2022	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	2058937.169	82395302.8	0.024989
San Bernardino (SC)	2022	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	465658.3953	31262118	0.014895
San Bernardino (SC)	2022	Industrial - Forklifts	Aggregate	Aggregate	Diesel	367723.9243	35207749	0.010444
San Bernardino (SC)	2022	Light Commercial - Misc - Generator Sets	Aggregate	Aggregate	Diesel	85573.06997	1896726.15	0.045116
San Bernardino (SC)	2022	Light Commercial - Misc - Welders	Aggregate	Aggregate	Diesel	136193.2205	5178707.6	0.026299
San Bernardino (SC)	2022	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	138092.4068	6413273.373	0.021532
San Bernardino (SC)	2022	Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	80369.41397	4352639.334	0.018465
San Bernardino (SC)	2022	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	358164.5469	18056220.41	0.019836
San Bernardino (SC)	2022	Light Commercial - Misc - Air Compressors	Aggregate	Aggregate	Diesel	29359.15615	1056226.05	0.027796

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	Fuel Rate
San Bernardino (SC)	2022	LHDT1	Aggregate	Aggregate	Diesel	139968349.2	6665.399872	21.00
San Bernardino (SC)	2022	LHDT2	Aggregate	Aggregate	Diesel	52830929.16	2774.359214	19.04
San Bernardino (SC)	2022	MHDT	Aggregate	Aggregate	Diesel	303502107.8	27799.50819	10.92
San Bernardino (SC)	2022	HHDT	Aggregate	Aggregate	Diesel	558215252.9	83675.52487	6.67
							8.8/2.2/24.3/64.7 Split	9.24

Source: EMFAC2021 (v1.0.0) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2021

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	
San Bernardino (SC)	2022	LDA	Aggregate	Aggregate	Gasoline	8003887181	255308.1705	31.35
San Bernardino (SC)	2022	LDT1	Aggregate	Aggregate	Gasoline	700914533	26342.70594	26.61
San Bernardino (SC)	2022	LDT2	Aggregate	Aggregate	Gasoline	2256988324	90640.59688	24.90
San Bernardino (SC)	2022	MDV	Aggregate	Aggregate	Gasoline	1785040768	88697.92747	20.12
							58.8/6.1/19.1/16.0 Split	28.03