

# Sharp Metropolitan Medical Campus Modernization Project

## Air Quality Technical Report

August 2021 | 02450.00001.001

*Prepared for:*

**Sharp HealthCare**  
7901 Frost Street  
San Diego, CA 92123

*Prepared by:*

**HELIX Environmental Planning, Inc.**  
7578 El Cajon Boulevard  
La Mesa, CA 91942

# Sharp Metropolitan Medical Campus Modernization Project

## Air Quality Technical Report

*Prepared for:*

**Sharp HealthCare**  
7901 Frost Street  
San Diego, CA 92123

*Prepared by:*

**HELIX Environmental Planning, Inc.**  
7578 El Cajon Boulevard  
La Mesa, CA 91942

August 2021 | 02450.00001.001

# TABLE OF CONTENTS

---

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY .....	ES-1
1.0 INTRODUCTION.....	1
1.1 Purpose of the Report.....	1
1.2 Project Location .....	1
1.3 Project Description .....	1
1.4 Construction Best Management Practices .....	2
2.0 REGULATORY SETTING.....	3
2.1 Criteria Pollutants .....	3
2.1.1 Pollutants of Concern .....	3
2.2 Toxic Air Contaminants.....	7
2.3 Odors.....	7
3.0 EXISTING CONDITIONS.....	8
3.1 Climate and Meteorology .....	8
3.2 Existing Air Quality.....	8
3.2.1 Criteria Pollutants .....	8
4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA.....	9
4.1 Methodology.....	9
4.1.1 Construction Emissions.....	9
4.1.2 Operational Emissions .....	13
4.2 Significance Criteria .....	14
5.0 IMPACT ANALYSIS .....	15
5.1 Consistency with Air Quality Plans .....	15
5.2 Conformance to Federal and State Air Quality Standards.....	16
5.2.1 Construction .....	16
5.2.2 Operation.....	17
5.3 Cumulatively Considerable Net Increase of Nonattainment Criteria Pollutants.....	18
5.4 Impacts to Sensitive Receptors.....	18
5.4.1 Carbon Monoxide Hotspots.....	18
5.4.2 Exposure to Toxic Air Contaminants.....	18
5.5 Odors.....	19
6.0 LIST OF PREPARERS .....	20
7.0 REFERENCES.....	21

# TABLE OF CONTENTS (cont.)

---

## LIST OF APPENDICES

A CalEEMod Output

## LIST OF FIGURES

<b>No.</b>	<b><u>Title</u></b>	<b><u>Follows Page</u></b>
1	Regional Location.....	2
2	Project Vicinity (Aerial Photograph) .....	2
3	Overall Site Plan .....	2

## LIST OF TABLES

<b>No.</b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1	Ambient Air Quality Standards .....	5
2	San Diego Air Basin Attainment Status .....	7
3	Air Quality Monitoring Data.....	9
4	Anticipated Construction Schedule .....	10
5	Construction Equipment Assumptions .....	11
6	Demolition and Soil Movement Amounts .....	13
7	Screening-Level Thresholds for Air Quality Impact Analysis.....	15
8	Maximum Daily Construction Emissions.....	17
9	Net Daily Operational Emissions.....	17

# ACRONYMS AND ABBREVIATIONS

---

AQIA	Air Quality Impact Assessment
BMP	Best Management Practice
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CO	carbon monoxide
CUP	Conditional Use Permit
DPM	diesel particulate matter
H <sub>2</sub> S	hydrogen sulfide
HRA	health risk assessment
I-	Interstate
ICU	intensive care unit
LOS	Level of Service
MEI	maximally exposed individual
mph	miles per hour
NAAQS	National Ambient Air Quality Standards
NO	nitrogen oxide
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
O <sub>3</sub>	ozone
Pb	lead
PCE	perchloroethylene
PDP	Planned Development Permit
PM	particulate matter
PM <sub>10</sub>	particulate matter less than 10 microns
PM <sub>2.5</sub>	particulate matter less than 2.5 microns
ROG	reactive organic gas

## ACRONYMS AND ABBREVIATIONS (cont.)

---

SANDAG	San Diego Association of Governments
SCAQMD	South Coast Air Quality Management District
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SF	square foot/feet
SIP	State Implementation Plan
SMMC	Sharp Metropolitan Medical Campus
SO <sub>2</sub>	sulfur dioxide
SR	State Route
TAC	toxic air contaminant
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

## EXECUTIVE SUMMARY

This report presents an assessment of potential air quality impacts during construction and operation of the proposed Sharp Metropolitan Medical Campus Modernization Project (Project), located in the city of San Diego.

The Project would result in emissions of air pollutants during both construction and operation of the Project. Construction best management practices (BMPs) would be implemented as part of the Project, including measures to minimize fugitive dust control emissions, such as watering twice per day during grading and stabilizing storage piles. The Project would comply with San Diego Air Pollution Control District (SDAPCD) Rule 55, which requires that no visible dust is emitted beyond the property line for a period or periods aggregating more than 3 minutes in any 60-minute period and would incorporate measures to minimize the track-out/carry-out of visible roadway dust. Emissions of all criteria pollutants would be below the daily thresholds during construction, and short-term construction air quality impacts would be less than significant.

Operationally, the Project would be a replacement of existing uses. It would not increase the number of hospital beds and therefore is not anticipated to result in an increase in existing vehicle trips to and from the site or associated mobile-source emissions. As such, the operational emissions analysis included herein, which focuses on the net increase in emissions compared to the existing uses on the Project site, only includes on-site energy consumption (i.e., natural gas for heating and hot water). The net increase in emissions from increased natural gas usage would be below the daily thresholds, and operational air quality impacts would be less than significant.

Development of the Project would be consistent with SDAPCD's 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County and also would not result in cumulatively considerable emissions of nonattainment air pollutants that would exceed the screening level thresholds.

The Project would not result in an increase in traffic that could result in a carbon monoxide (CO) hot spot. Construction and operation of the Project also would not result in exposure of sensitive receptors to significant quantities of toxic air contaminants (TACs). In addition, evaluation of potential odors from the Project indicated that associated impacts would be less than significant.

This page intentionally left blank



## 1.0 INTRODUCTION

### 1.1 PURPOSE OF THE REPORT

This report analyzes potential air quality impacts associated with the proposed Sharp Metropolitan Medical Campus Modernization Project (Project) and includes an evaluation of existing conditions in the Project vicinity and assessment of potential impacts associated with Project construction and operations.

### 1.2 PROJECT LOCATION

The Project would occur at the existing Sharp Metropolitan Medical Campus (SMMC), which is located on a 41-acre site at 7901 Frost Street in the Serra Mesa community of the City of San Diego (City), in western San Diego County (County; see Figure 1, *Regional Location*, and Figure 2, *Project Vicinity [Aerial Photograph]*). The site is located on the southern side of Frost Street, between State Route (SR) 163 and Interstate (I-) 805. The site is zoned CO-1-2 and has a General Plan land use designation of Institutional and Public and Semi-Public Facilities and a Community Plan land use designation of Institutional.

### 1.3 PROJECT DESCRIPTION

The proposed Project involves a Conditional Use Permit (CUP) and Planned Development Permit (PDP) for upgrades to the existing SMMC. Sharp Memorial Hospital opened in 1955, a CUP was issued in 1988, and a phased modernization program was approved by the City in 2004. Additional upgrades are necessary to further modernize the facility and comply with current seismic requirements.

The proposed upgrades would include the following (see Figure 3, *Overall Site Plan*):

- Demolition of the existing plumbing shop.
- Partial demolition of the existing Central Energy Plant (CEP) and remodel of engineering offices.
- Construction of a six-level, 86,000-square foot (SF) expansion of the existing Mary Birch building and construction of a new waste dock. The Mary Birch expansion would occur on the eastern side of the existing Mary Birch building and would accommodate a materials loading dock and materials management area, a relocated sterile processing department and laboratory, and three levels of patient care units.
- Construction of a new seven-level, 207,000-SF hospital tower just north of the Mary Birch expansion, replacement of the existing Rady Bridge, and demolition of the existing dietary building and service building. The new hospital tower would include a dietary department, public spaces, a conference center, an interventional level with a preoperative expansion, diagnostic imaging and intensive care unit (ICU), and four levels of patient care units.
- Construction of a new concourse entry for the new hospital tower.
- Replacement of approximately 40,000 SF of the existing Knollwood Building with 120,000 SF of new administrative office building.

- Partial demolition of the existing eight-level central and south hospital towers down to their existing second level podium bases (which would remain).

The Project would result in a 77-hospital bed decrease, which consists of a 27-bed expansion of Mary Birch, a new 152-bed hospital tower shell, and the 256-bed demolition of a portion of the south and central towers.

A Long Range Plan for Expansion and Improvement (LRPEI) was prepared by Children’s Hospital and Health Center, Sharp Memorial Hospital, and San Diego Medical Center in 1995. Its primary focus was to identify the circulation improvements necessary to accommodate future development of the medical campus. With this CUP/PDP amendment and its implementation, the Project would result in a reduction in beds and traffic, the development will remain within Stage 1. No Stage 2 circulation improvements would be required.

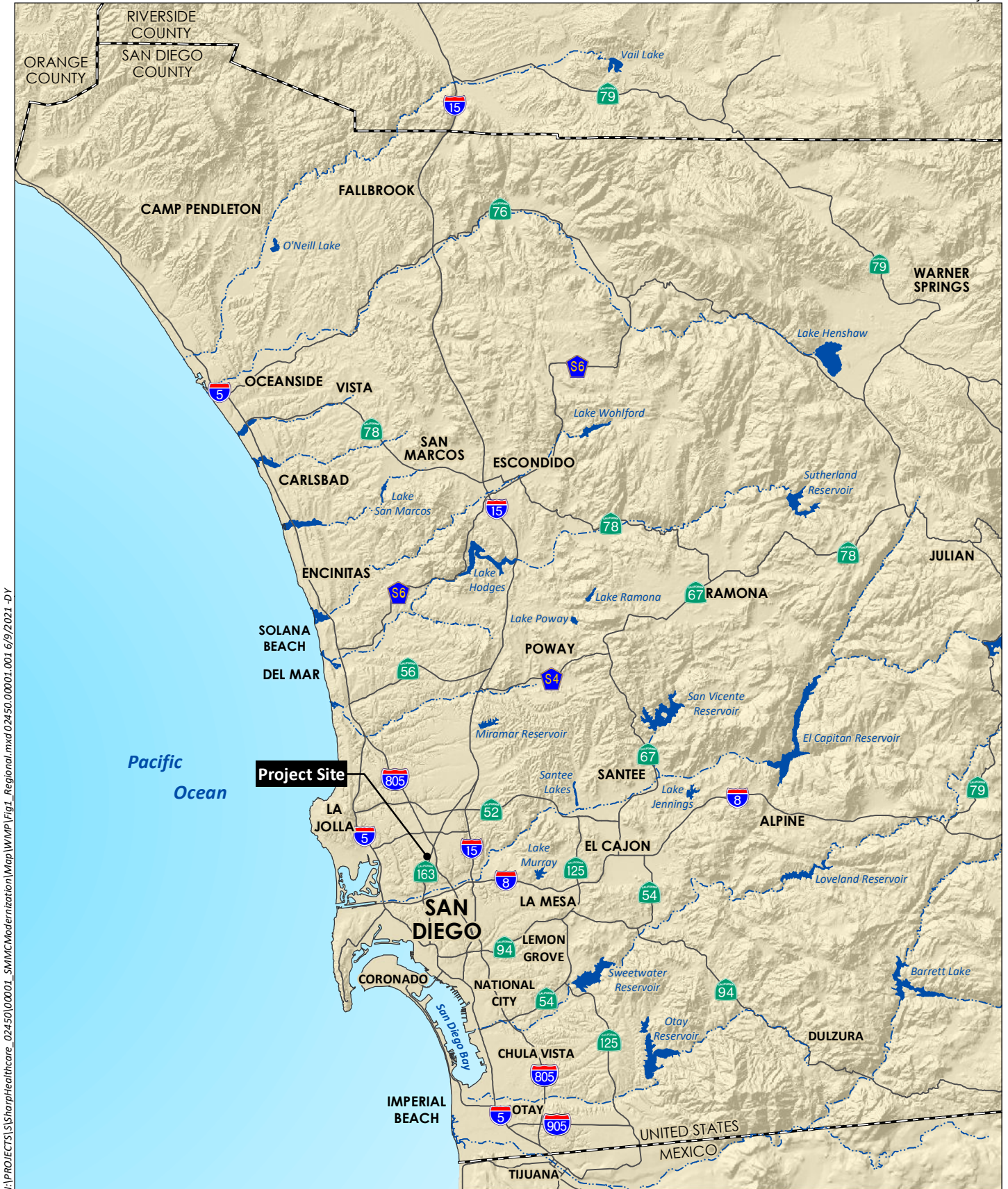
## 1.4 CONSTRUCTION BEST MANAGEMENT PRACTICES

The Project would incorporate best management practices (BMPs) during construction to reduce emissions of fugitive dust. San Diego Air Pollution Control District (SDAPCD) Rule 55 – Fugitive Dust Control states that no dust and/or dirt shall leave the property line. SDAPCD Rule 55 requires the following:

- 1) **Airborne Dust Beyond the Property Line:** No person shall engage in construction or demolition activity subject to this rule in a manner that discharges visible dust emissions into the atmosphere beyond the property line for a period or periods aggregating more than 3 minutes in any 60-minute period.
- 2) **Track-Out/Carry-Out:** Visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out shall:
  - a) be minimized by the use of any of the following or equally effective trackout/carry-out and erosion control measures that apply to the Project or operation:
    - i) track-out grates or gravel beds at each egress point,
    - ii) wheel-washing at each egress during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding; and for outbound transport trucks;
    - iii) using secured tarps or cargo covering, watering, or treating of transported material; and
  - b) be removed at the conclusion of each work day when active operations cease, or every 24 hours for continuous operations. If a street sweeper is used to remove any track-out/carry-out, only PM<sub>10</sub>-efficient (particulate matter less than 10 microns) street sweepers certified to meet the most current South Coast Air Quality Management District (SCAQMD) Rule 1186 requirements shall be used. The use of blowers for removal of track-out/carry-out is prohibited under any circumstances.

The Project would implement the BMP control measures listed below:


- A minimum of two applications of water during grading between dozer/scrapper passes;



I:\PROJECTS\SharpHealthcare\_02450\00001\_SMMCModernization\Map\WMP\Fig1\_Regional.mxd 02450.00001.001 6/9/2021 -DY

Source: Base Map Layers (SanGIS, 2016)



 Sharp Metropolitan Medical Campus



I:\PROJECTS\SharpHealthcare\_02450\00001\_SMMCModernization\Map\WMP\Fig2\_ProVicinity.mxd 02.450.00001.001 6/9/2021 -DY



Source: Aerial (SanGIS, 2020)





- Paving, chip sealing, or chemical stabilization of internal roadways after completion of grading;
- Termination of grading if winds exceed 25 miles per hour (mph);
- Maintenance of a minimum soil moisture of 12 percent in all exposed surfaces;
- Stabilization of dirt storage piles by chemical binders, tarps, fencing, or other erosion control; and
- Vehicle speeds would be limited on unpaved roads to 15 mph.

## 2.0 REGULATORY SETTING

### 2.1 CRITERIA POLLUTANTS

#### 2.1.1 Pollutants of Concern

Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the general public. In general, air pollutants include the following compounds:

- Ozone (O<sub>3</sub>)
- Reactive Organic Gases (ROGs) or volatile organic compounds (VOCs)
- Carbon Monoxide (CO)
- Nitrogen Dioxide (NO<sub>2</sub>)
- Respirable Particulate Matter (PM<sub>10</sub>) and Fine Particulate Matter (PM<sub>2.5</sub>)
- Sulfur Dioxide (SO<sub>2</sub>)
- Lead (Pb)

The following specific descriptions of health effects for each air pollutant associated with Project construction and operation are based on information available through U.S. Environmental Protection Agency (USEPA; 2021) and California Air Resources Board (CARB; 2021a).

**Ozone.** Ozone is considered a photochemical oxidant, which is a chemical that is formed when VOCs and nitrogen oxides (NO<sub>x</sub>), both by-products of fuel combustion, react in the presence of ultraviolet light. Ozone is considered a respiratory irritant and prolonged exposure can reduce lung function, aggravate asthma, and increase susceptibility to respiratory infections. Children and those with existing respiratory diseases are at greatest risk from exposure to ozone.

**Reactive Organic Gases.** ROGs (also known as VOCs) are compounds composed primarily of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of ROGs. Other sources of ROGs include evaporative emissions from paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. Adverse effects on human health are not caused directly by ROGs, but rather by reactions of ROGs to form secondary pollutants such as ozone.

**Carbon Monoxide.** CO is a product of fuel combustion. CO is an odorless, colorless gas. CO affects red blood cells in the body by binding to hemoglobin and reducing the amount of oxygen that can be carried

to the body's organs and tissues. CO can cause health effects to those with cardiovascular disease and can also affect mental alertness and vision.

**Nitrogen Dioxide.** NO<sub>2</sub> is also a by-product of fuel combustion and is formed both directly as a product of combustion and in the atmosphere through the reaction of nitrogen oxide (NO) with oxygen. NO<sub>2</sub> is a respiratory irritant and may affect those with existing respiratory illness, including asthma. NO<sub>2</sub> can also increase the risk of respiratory illness.

**Respirable Particulate Matter and Fine Particulate Matter.** PM<sub>10</sub> refers to particulate matter (PM) with an aerodynamic diameter of 10 microns or less. PM<sub>2.5</sub> refers to particulate matter with an aerodynamic diameter of 2.5 microns or less. Particulate matter in these size ranges has been determined to have the potential to lodge in the lungs and contribute to respiratory problems. PM<sub>10</sub> and PM<sub>2.5</sub> arise from a variety of sources, including road dust, diesel exhaust, fuel combustion, tire and brake wear, construction operations, and windblown dust. PM<sub>10</sub> and PM<sub>2.5</sub> can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases such as asthma and chronic bronchitis. PM<sub>2.5</sub> is considered to have the potential to lodge deeper in the lungs. Diesel particulate matter (DPM) is classified a carcinogen by CARB.

**Sulfur Dioxide.** SO<sub>2</sub> is a colorless, reactive gas that is produced from the burning of sulfur-containing fuels such as coal and oil and by other industrial processes. Generally, the highest concentrations of SO<sub>2</sub> are found near large industrial sources. SO<sub>2</sub> is a respiratory irritant that can cause narrowing of the airways leading to wheezing and shortness of breath. Long-term exposure to SO<sub>2</sub> can cause respiratory illness and aggravate existing cardiovascular disease.

**Lead.** Lead in the atmosphere occurs as particulate matter. With the phase-out of leaded gasoline, large manufacturing facilities are the sources of the largest amounts of lead emissions. Lead has the potential to cause gastrointestinal, central nervous system, kidney and blood diseases upon prolonged exposure. Lead is also classified as a probable human carcinogen. Because emissions of lead are found only in projects that are permitted by the local air district, lead is not an air pollutant of concern for the proposed Project.

Air quality is defined by ambient air concentrations of specific pollutants identified by the USEPA to be of concern with respect to health and welfare of the general public. The USEPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the USEPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the USEPA established both primary and secondary standards for the criteria pollutants, which are discussed above. Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and the public welfare from air pollutants in the atmosphere. Table 1, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards for these pollutants.

**Table 1**  
**AMBIENT AIR QUALITY STANDARDS**

Pollutant	Averaging Time	California Standards	Federal Standards Primary <sup>1</sup>	Federal Standards Secondary <sup>2</sup>
O <sub>3</sub>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	–	–
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )	0.070 ppm (137 µg/m <sup>3</sup> )	Same as Primary
PM <sub>10</sub>	24 Hour	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	Same as Primary
	AAM	20 µg/m <sup>3</sup>	–	Same as Primary
PM <sub>2.5</sub>	24 Hour	–	35 µg/m <sup>3</sup>	Same as Primary
	AAM	12 µg/m <sup>3</sup>	12.0 µg/m <sup>3</sup>	15.0 µg/m <sup>3</sup>
CO	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	35 ppm (40 mg/m <sup>3</sup> )	–
	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> )	–	–
NO <sub>2</sub>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	0.100 ppm (188 µg/m <sup>3</sup> )	–
	AAM	0.030 ppm (57 µg/m <sup>3</sup> )	0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary
SO <sub>2</sub>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	0.075 ppm (196 µg/m <sup>3</sup> )	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m <sup>3</sup> )
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )	–	–
Lead	30-day Avg.	1.5 µg/m <sup>3</sup>	–	–
	Calendar Quarter	–	1.5 µg/m <sup>3</sup>	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m <sup>3</sup>	
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	<b>No Federal Standards</b>	<b>No Federal Standards</b>
Sulfates	24 Hour	25 µg/m <sup>3</sup>	<b>No Federal Standards</b>	<b>No Federal Standards</b>
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	<b>No Federal Standards</b>	<b>No Federal Standards</b>
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	<b>No Federal Standards</b>	<b>No Federal Standards</b>

Source: CARB 2016

<sup>1</sup> National Primary Standards: The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

<sup>2</sup> National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

Note: More detailed information of the data presented in this table can be found at the CARB website ([www.arb.ca.gov](http://www.arb.ca.gov)).

O<sub>3</sub>: ozone; ppm: parts per million; µg/m<sup>3</sup>: micrograms per cubic meter; PM<sub>10</sub>: large particulate matter;

AAM: Annual Arithmetic Mean; PM<sub>2.5</sub>: fine particulate matter; CO: carbon monoxide; mg/m<sup>3</sup>: milligrams per cubic meter; NO<sub>2</sub>: nitrogen dioxide; SO<sub>2</sub>: sulfur dioxide; km: kilometer; –: No Standard.

The CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. CARB has established the more stringent California Ambient Air Quality Standards (CAAQS) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA), and also has established CAAQS for additional pollutants, including sulfates, hydrogen sulfide



(H<sub>2</sub>S), vinyl chloride, and visibility-reducing particles. Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be “nonattainment areas” for that pollutant. On August 3, 2018, the San Diego Air Basin (SDAB) was classified as a moderate nonattainment area for the 8-hour NAAQS for ozone (USEPA 2020). The SDAB is currently classified as a nonattainment area under the CAAQS for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub>. The SDAB is an attainment area for the NAAQS and CAAQS for all other criteria pollutants (SDAPCD 2019).

CARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The SDAPCD is the local agency responsible for the administration and enforcement of air quality regulations for the County.

The SDAPCD and San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The current regional air quality plan for San Diego County is SDAPCD’s 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (Attainment Plan; SDAPCD 2020). The Attainment Plan, which would be a revision to the state implementation plan (SIP), outlines SDAPCD’s plans and control measures designed to attain the NAAQS for ozone. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and CARB, and the emissions and reduction strategies related to mobile sources are considered in the Attainment Plan and SIP.

The Attainment Plan relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and by the County as part of the development of their respective general plans. Projects which are consistent with the growth assumptions used in the Attainment Plan and do not conflict with the control measures in the Attainment Plan, and which do not result in criteria pollutant and precursor emissions in excess of the thresholds adopted by the City (as described in Section 4.2, below), would not hinder the goal of the Attainment Plan to bring the SDAB into compliance with the NAAQS and CAAQS for the protection of public health.

The SIP relies on the same information from SANDAG to develop emission inventories and emission reduction strategies that are included in the attainment demonstration for the air basin.

The current federal and state attainment status for San Diego County is presented in Table 2, *San Diego Air Basin Attainment Status*.

**Table 2**  
**SAN DIEGO AIR BASIN ATTAINMENT STATUS**

Criteria Pollutant	Federal Designation	State Designation
O <sub>3</sub> (1-hour)	(No federal standard)	Nonattainment
O <sub>3</sub> (8-hour)	Nonattainment	Nonattainment
CO	Attainment	Attainment
PM <sub>10</sub>	Unclassifiable	Nonattainment
PM <sub>2.5</sub>	Attainment	Nonattainment
NO <sub>2</sub>	Attainment	Attainment
SO <sub>2</sub>	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Unclassifiable
Visibility	(No federal standard)	Unclassifiable

Source: SDAPCD 2019

## 2.2 TOXIC AIR CONTAMINANTS

Toxic air contaminants (TACs) are a category of air pollutants that have been shown to have an impact on human health but are not classified as criteria pollutants. Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. Air toxics are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as farms, landfills, construction sites, and residential areas. Adverse health effects of TACs can be carcinogenic (cancer-causing), short-term (acute) noncarcinogenic, and long-term (chronic) noncarcinogenic. Public exposure to TACs is a significant environmental health issue in California.

## 2.3 ODORS

The State of California Health and Safety Code Sections 41700 and 41705 and SDAPCD Rule 51 (commonly referred to as public nuisance law) prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The provisions of these regulations do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals. It is generally accepted that the considerable number of persons requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from a “considerable” number of persons or businesses in the area will be considered to be a significant, adverse odor impact.

The San Diego Municipal Code also addresses odor impacts at Chapter 14, Article 2, Division 7 paragraph 142.0710, “Air Contaminant Regulations,” which states:

Air contaminants including smoke, charred paper, dust, soot, grime, carbon, noxious acids, toxic fumes, gases, odors, and particulate matter, or any emissions that endanger human health, cause damage to vegetation or property, or cause soiling, shall not be permitted to emanate beyond the boundaries of the premises upon which the use emitting the contaminants is located.

## **3.0 EXISTING CONDITIONS**

### **3.1 CLIMATE AND METEOROLOGY**

The climate in southern California, including the SDAB, is controlled largely by the strength and position of the subtropical high-pressure cell over the Pacific Ocean. Areas within 30 miles of the coast experience moderate temperatures and comfortable humidity.

The predominant wind direction in the vicinity of Project site is from the northwest and northeast and the average wind speed is 5.5 mph (Iowa Environmental Mesonet 2021). The annual average maximum temperature in the Project area is approximately 67°F, and the annual average minimum temperature is approximately 56°F. Total precipitation in the Project area averages approximately 10 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center 2016).

Due to its climate, the SDAB experiences frequent temperature inversions (temperature increases as altitude increases, which is the opposite of general patterns). Temperature inversions prevent air close to the ground from mixing with the air above it. As a result, air pollutants are trapped near the ground. During the summer, air quality problems are created due to the interaction between the ocean surface and the lower layer of the atmosphere, creating a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and NO<sub>2</sub> react under strong sunlight, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving the air pollutants inland, toward the foothills. During the fall and winter, air quality problems are created due to CO and NO<sub>2</sub> emissions. High NO<sub>2</sub> levels usually occur during autumn or winter, on days with summer-like conditions.

### **3.2 EXISTING AIR QUALITY**

#### **3.2.1 Criteria Pollutants**

##### **3.2.1.1 Attainment Designations**

Attainment designations are discussed in Section 2.1.1 and shown in Table 2. The SDAB is classified as a nonattainment area under the NAAQS for 8-hour ozone and as a nonattainment area under the CAAQS for 1-hour ozone, 8-hour ozone, PM<sub>10</sub>, and PM<sub>2.5</sub>. The SDAB is an attainment area for all other criteria pollutants.

##### **3.2.1.2 Monitored Air Quality**

The SDAPCD operates a network of ambient air monitoring stations throughout the county. The purpose of the monitoring stations is to measure ambient concentrations of the pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. The nearest ambient monitoring station to the Project site is the San Diego-Kearny Villa Road monitoring station located near Marine Corps Air Station Miramar, approximately 3.7 miles northeast of the Project site. Air quality data for this monitoring station are shown in Table 3, *Air Quality Monitoring Data*.

**Table 3**  
**AIR QUALITY MONITORING DATA**

Pollutant	2017	2018	2019
<b>Ozone (O<sub>3</sub>)</b>			
Maximum 1-hour concentration (ppm)	0.097	0.102	0.083
Days above 1-hour state standard (>0.09 ppm)	2	1	0
Maximum 8-hour concentration (ppm)	0.083	0.07	0.075
Days above 8-hour state standard (>0.070 ppm)	6	5	1
Days above 8-hour federal standard (>0.075 ppm)	4	1	0
<b>Carbon Monoxide (CO)</b>			
Maximum 8-hour concentration (ppm)	*	*	*
Days above state or federal standard (>9.0 ppm)	*	*	*
<b>Respirable Particulate Matter (PM<sub>10</sub>)</b>			
Maximum 24-hour concentration (µg/m <sup>3</sup> )	47.0	38.0	*
Days above state standard (>50 µg/m <sup>3</sup> )	0	0	*
Days above federal standard (>150 µg/m <sup>3</sup> )	0	0	*
<b>Fine Particulate Matter (PM<sub>2.5</sub>)</b>			
Maximum 24-hour concentration (µg/m <sup>3</sup> )	27.5	32.2	16.2
Days above federal standard (>35 µg/m <sup>3</sup> )	0	0	0
<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>			
Maximum 1-hour concentration (ppm)	0.054	0.045	0.046
Days above state 1-hour standard (0.18 ppm)	0	0	0

Source: CARB 2021b

ppm = parts per million, µg/m<sup>3</sup> = micrograms per cubic meter

\*Insufficient data available

From 2017 to 2019, monitoring data at the San Diego-Kearny Villa Road station show acceptable levels of PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>. The state 1-hour ozone standard was violated twice in 2017 and once in 2018. The state 8-hour ozone standard was violated six times in 2017, five times in 2018, and one time in 2019, and the federal 8-hour ozone standard was violated four times in 2017 and one time in 2018.

## 4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

### 4.1 METHODOLOGY

Criteria pollutant emissions were calculated using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0 (California Air Pollution Control Officers Association [CAPCOA] 2021). CalEEMod is a computer model used to estimate criteria air pollutant emissions resulting from construction and operation of land development projects throughout the state of California. CalEEMod was developed by the SCAQMD with the input of several air quality management and pollution control districts. The input data and subsequent construction and operation emission estimates for the proposed Project are discussed below. CalEEMod output files are included in Appendix A.

#### 4.1.1 Construction Emissions

As described above, construction emissions are assessed using the CalEEMod, Version 2020.4.0. CalEEMod contains OFFROAD2011 and EMFAC2017 emission factors from CARB's models for off-road equipment and on-road vehicles, respectively. The construction analysis included modeling of the

projected construction equipment that would be used during each construction activity and quantities of earth and debris to be moved. The model calculates emissions of CO, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and the ozone precursors VOC and NO<sub>x</sub>.

Construction input data for CalEEMod include, but are not limited to: (1) the anticipated start and finish dates of construction activity; (2) inventories of construction equipment to be used; (3) areas to be excavated and graded; and (4) volumes of materials to be exported from and imported to the Project area. The analysis assessed maximum daily emissions from individual construction activities including demolition, site preparation, underground utilities installation, grading, building construction, paving, and architectural coating that would occur for the various Project components.

For analysis purposes, the various Project components are grouped based on anticipated construction schedule, which was determined by input provided by the Project Applicant. Table 4, *Anticipated Construction Schedule*, shows the anticipated construction schedule for the various components of Project construction.

**Table 4**  
**ANTICIPATED CONSTRUCTION SCHEDULE**

Construction Activity	Construction Period		
	Start	End	Number of Working Days
<b>Mary Birch Expansion/Waste Dock Construction/CEP Renovation</b>			
Demolition	1/1/2023	1/31/2023	22
Site Preparation	1/1/2023	1/31/2023	22
Underground Utilities	1/1/2023	6/30/2023	130
Grading	2/1/2023	3/31/2023	42
Building Construction	2/1/2023	12/31/2024	500
Paving	7/1/2024	12/31/2024	132
Architectural Coating	7/1/2024	12/31/2024	132
<b>Hospital Tower Construction/Rady Bridge Replacement</b>			
Demolition	1/1/2025	1/31/2025	23
Site Preparation	1/1/2025	1/31/2025	23
Underground Utilities	2/1/2025	7/31/2025	129
Grading	2/1/2025	3/31/2025	41
Building Construction	3/1/2025	10/31/2028	957
Paving	4/1/2028	9/29/2028	130
Architectural Coating	5/1/2028	10/31/2028	132
<b>Concourse Entry Construction/Knollwood Building Replacement</b>			
Demolition	11/1/2028	12/29/2028	43
Site Preparation	11/1/2028	11/30/2028	22
Underground Utilities	12/1/2028	5/31/2029	130
Grading	12/1/2028	1/31/2029	44
Building Construction	12/1/2028	2/28/2030	325
Paving	9/1/2029	2/28/2030	129
Architectural Coating	9/1/2029	2/28/2030	129
<b>Central and South Towers Demolition</b>			
Demolition	4/1/2030	5/30/2031	305
Grading	6/1/2031	8/29/2031	65
Building Construction	9/1/2031	12/31/2031	88

Construction would require heavy equipment during these various construction activities. Construction equipment estimates are based on assumptions provided by the Project Applicant and model defaults. Table 5, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.

**Table 5  
CONSTRUCTION EQUIPMENT ASSUMPTIONS**

<b>Construction Activity</b>	<b>Equipment</b>	<b>Number</b>
<b>Mary Birch Expansion/Waste Dock Construction/CEP Renovation</b>		
Demolition	Concrete/Industrial Saw	1
	Rubber Tired Loader	1
	Tractor/Loader/Backhoe	3
Site Preparation	Grader	1
	Scraper	1
	Tractor/Loader/Backhoe	1
Underground Utilities	Tractor/Loader/Backhoe	3
Grading	Grader	1
	Rubber Tired Dozer	1
	Tractor/Loader/Backhoe	2
Building Construction	Crane	1
	Forklift	2
	Generator Set	1
	Tractor/Loader/Backhoe	1
	Welder	3
Paving	Paver	1
	Paving Equipment	1
	Roller	2
	Tractor/Loader/Backhoe	1
Architectural Coating	Air Compressor	1
<b>Hospital Tower Construction/Rady Bridge Replacement</b>		
Demolition	Concrete/Industrial Saw	1
	Rubber Tired Loader	1
	Tractor/Loader/Backhoe	3
Site Preparation	Grader	1
	Rubber Tired Dozer	1
	Tractor/Loader/Backhoe	1
Underground Utilities	Tractor/Loader/Backhoe	3
Grading	Grader	1
	Rubber Tired Dozer	1
	Tractor/Loader/Backhoe	2
Building Construction	Crane	1
	Forklift	1
	Generator Set	1
	Tractor/Loader/Backhoe	1
	Welder	3

Construction Activity	Equipment	Number
Paving	Cement and Mortar Mixer	1
	Paver	1
	Paving Equipment	1
	Roller	1
	Tractor/Loader/Backhoe	1
Architectural Coating	Air Compressor	1
<b>Concourse Entry Construction/Knollwood Building Replacement</b>		
Demolition	Concrete/Industrial Saw	1
	Rubber Tired Loader	1
	Tractor/Loader/Backhoe	3
Site Preparation	Grader	1
	Scraper	1
	Tractor/Loader/Backhoe	1
Underground Utilities	Tractor/Loader/Backhoe	2
Grading	Grader	1
	Rubber Tired Dozer	1
	Tractor/Loader/Backhoe	2
Building Construction	Crane	1
	Forklift	2
	Generator Set	1
	Tractor/Loader/Backhoe	1
	Welder	3
Paving	Cement and Mortar Mixer	1
	Paver	1
	Paving Equipment	1
	Roller	2
	Tractor/Loader/Backhoe	1
Architectural Coating	Air Compressor	1
<b>Central and South Towers Demolition</b>		
Demolition	Concrete/Industrial Saw	1
	Rubber Tired Loader	1
	Tractor/Loader/Backhoe	2
Grading	Grader	1
	Rubber Tired Dozer	1
	Tractor/Loader/Backhoe	1
Building Construction	Crane	1
	Forklift	2
	Tractor/Loader/Backhoe	2

Source: CalEEMod (output data, including equipment horsepower, is provided in Appendix A).

Project construction would involve the demolition of existing structures and soil movement (cut and fill) during grading. The export of demolition materials, the export of cut soil, and the import of fill soil would require the use of on-road haul trucks that would generate air pollutant emissions. The demolition and soil movement amounts associated with the various components of Project construction are shown in Table 6, *Demolition and Soil Movement Amounts*.

**Table 6  
DEMOLITION AND SOIL MOVEMENT AMOUNTS**

<b>Component</b>	<b>Demolition Amount</b>	<b>Soil Movement Amount Cut</b>	<b>Soil Movement Amount Fill</b>
Mary Birch Expansion/Waste Dock Construction/CEP Renovation	8,650 tons	10,861 CY cut	457 CY fill
Hospital Tower Construction/Rady Bridge Replacement	2,120 tons	3,045 CY cut	2,108 CY fill
Concourse Entry Construction/Knollwood Building Replacement	7,920 tons	1,829 CY cut	444 CY fill
Central and South Towers Demolition	11,200 tons	10 CY cut	718 CY fill

Source: CalEEMod (output data, including equipment horsepower, is provided in Appendix A)  
CY = cubic yards

The quantity, duration, and the intensity of construction activity influence the amount of construction emissions and their related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer time period, emissions could be reduced because of (1) a more modern and cleaner-burning construction equipment fleet mix than incorporated in the CalEEMod, and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval).

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. Construction emission calculations presented herein assume the implementation of standard dust control measures listed in Section 1.3, including watering two times daily during grading, ensuring that all exposed surfaces maintain a minimum soil moisture of 12 percent, and limiting vehicle speeds on unpaved roads to 15 mph.

The Project would also exceed the requirements of SDAPCD Rule 67 by using no-VOC coatings. The quantities of coatings that would be applied to the interior and exterior of the new buildings were estimated according to CalEEMod default assumptions.

#### **4.1.2 Operational Emissions**

The Project involves the replacement of existing uses. It would not increase the number of hospital beds and therefore is not anticipated to result in an increase in existing vehicle trips to and from the site or associated mobile-source emissions. As such, the operational emissions analysis included herein, which focuses on the net increase in emissions compared to the existing uses on the Project site, only includes on-site energy consumption (i.e., natural gas for heating and hot water). According to the Project Applicant, the existing natural gas use is 1,659,794 therms per year and the anticipated natural gas consumption for the proposed Project is 1,950,000 therms per year.



## 4.2 SIGNIFICANCE CRITERIA

The City (2016) has approved guidelines for determining significance based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines, which provide guidance that a project would have a significant air quality environmental impact if it would:

- (1) Conflict with or obstruct implementation of the Attainment Plan or applicable portions of the SIP;
- (2) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
- (3) Result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
- (4) Expose sensitive receptors (i.e., day care centers, schools, retirement homes, and hospitals or medical patients in residential homes which could be impacted by air pollutants) to substantial pollutant concentrations; or
- (5) Create objectionable odors affecting a substantial number of people.

To determine whether a project would (a) result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation, (b) result in a cumulatively considerable net increase of PM<sub>10</sub>, PM<sub>10</sub>, or exceed quantitative thresholds for ozone precursors (NO<sub>x</sub> and VOCs), or (c) have an adverse effect on human health, project emissions may be evaluated based on the quantitative emission thresholds established by the SDAPCD. As part of its air quality permitting process, the SDAPCD has established thresholds in Rules 20.2 and 20.3 for the preparation of Air Quality Impact Assessments (AQIAs). In the absence of a SDAPCD adopted thresholds for PM<sub>2.5</sub>, the SCAQMD's screening threshold of 55 pounds per day or 10 tons per year is used.

The screening criteria were developed by SDAPCD and SCAQMD with the purpose of attaining the NAAQS and CAAQS. The NAAQS and CAAQS, as discussed in Section 2.1.1, identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. Therefore, for CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that a project's total emissions would not result in a significant impact to air quality or have an adverse effect on human health. The screening thresholds are included in Table 7, *Screening-level Thresholds for Air Quality Impact Analysis*.

**Table 7**  
**SCREENING-LEVEL THRESHOLDS FOR AIR QUALITY IMPACT ANALYSIS**

Pollutant	Total Emissions		
<b>Construction Emissions (Pounds per Day)</b>			
Respirable Particulate Matter (PM <sub>10</sub> )	100		
Fine Particulate Matter (PM <sub>2.5</sub> )	55		
Oxides of Nitrogen (NO <sub>x</sub> )	250		
Oxides of Sulfur (SO <sub>x</sub> )	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOCs)	137		
<b>Operational Emissions</b>			
	Pounds per Hour	Pounds per Day	Tons per Year
Respirable Particulate Matter (PM <sub>10</sub> )	---	100	15
Fine Particulate Matter (PM <sub>2.5</sub> )	---	55	10
Oxides of Nitrogen (NO <sub>x</sub> )	25	250	40
Oxides of Sulfur (SO <sub>x</sub> )	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	---	3.2	0.6
Volatile Organic Compounds (VOC)	---	137	13.7
<b>Toxic Air Contaminant Emissions</b>			
Excess Cancer Risk	1 in 1 million 10 in 1 million with T-BACT		
Non-Cancer Hazard	1.0		

Source: City of San Diego 2016

T-BACT = Toxics-Best Available Control Technology

Per the City’s Significance Determination Thresholds, determining the significance of potential odor impacts should be based on what is known about the quantity of the odor compound(s) that would result from the Project’s proposed use(s), the types of neighboring uses potentially affected, the distance(s) between the Project’s point source(s) and the neighboring uses such as sensitive receptors, and the resultant concentrations at receptors.

## 5.0 IMPACT ANALYSIS

This section evaluates potential direct impacts of the proposed Project related to the air pollutant emissions.

### 5.1 CONSISTENCY WITH AIR QUALITY PLANS

The SDAPCD is required, pursuant to the federal CAA, to reduce emissions of criteria pollutants for which the SDAB is in nonattainment. Strategies to achieve these emissions reductions are developed in the Attainment Plan and SIP, prepared by the SDAPCD for the region. Both the Attainment Plan and SIP are based on SANDAG population projections, as well as land use designations and population projections included in general plans for cities located within the County. Population growth is typically associated with the construction of residential units or large employment centers.

Projects that propose development that is consistent with the growth anticipated by the local jurisdictions’ general plans would be consistent with the Attainment Plan. In the event that a project

proposes development that is less intensive than anticipated within the General Plan, the project would likewise be consistent with the Attainment Plan. If a project proposes development that is greater than that anticipated in the General Plan and SANDAG's growth projections upon which the Attainment Plan is based, the project would be in conflict with the Attainment Plan and might have a potentially significant impact on air quality. This situation would warrant further analysis to determine whether the project and the surrounding projects exceed the growth projections used in the Attainment Plan for the specific subregional area.

The proposed Project would replace existing facilities with similar uses and would not accommodate an increase in employees or an increase in the number of hospital beds. It would therefore not result in development that is greater than that anticipated in the General Plan or SANDAG's growth projections upon which the Attainment Plan is based. Furthermore, as detailed in Section 5.2, below, the Project would not result in a significant air quality impact with regards to construction- and operational-related emissions of ozone precursors or criteria air pollutants. The Project would also comply with existing and new rules and regulations as they are implemented by the SDAPCD, CARB, and/or USEPA related to emissions generated during construction. Impacts associated with conformance to regional air quality plans would be less than significant.

## **5.2 CONFORMANCE TO FEDERAL AND STATE AIR QUALITY STANDARDS**

The Project would generate criteria pollutants in the short term during construction and the long term during operation. To determine whether a project would result in emissions that would violate an air quality standard, contribute substantially to an existing or projected air quality violation, or have an adverse effect on human health, the Project's emissions are evaluated based on the quantitative emission thresholds established by the SDAPCD (as shown in Table 7).

### **5.2.1 Construction**

The Project's construction emissions were estimated using CalEEMod as described in Section 4.1.1. Project-specific input was based on information provided by the Project Applicant and default model settings to estimate reasonably conservative conditions. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

The results of the calculations for the various components of Project construction, which are grouped by schedule, are shown in Table 8, *Maximum Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SDAPCD thresholds. Refer to Appendix A for emissions calculations for each individual construction activity.

**Table 8**  
**MAXIMUM DAILY CONSTRUCTION EMISSIONS**

Year	Pollutant Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Mary Birch Expansion/Waste Dock Construction/CEP Renovation</b>						
2023	4	39	32	<0.5	7	3
2024	3	23	29	<0.5	2	1
<b>Hospital Tower Construction/Rady Bridge Replacement</b>						
2025	3	29	30	<0.5	5	3
2026	2	12	14	<0.5	1	1
2027	2	12	14	<0.5	1	1
2028	2	18	25	<0.5	2	1
<b>Concourse Entry Construction/Knollwood Building Replacement</b>						
2028	4	44	43	<0.5	8	4
2029	3	29	29	<0.5	5	3
2030	3	16	29	<0.5	1	1
<b>Central and South Towers Demolition</b>						
2030	1	4	8	<0.5	1	<0.5
2031	1	4	8	<0.5	3	1
<b>Maximum Daily Emissions</b>	<b>4</b>	<b>44</b>	<b>43</b>	<b>&lt;0.5</b>	<b>8</b>	<b>4</b>
<i>SDAPCD Thresholds</i>	<i>75</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>55</i>
<b>Significant Impact?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod (output data is provided in Appendix A)

VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides;

PM<sub>10</sub> = particulate matter 10 microns or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter

As shown in Table 8, emissions of all criteria pollutants and ozone precursors from Project construction would be below the SDAPCD's significance thresholds. Therefore, direct impacts from criteria pollutants generated during Project construction would be less than significant.

## 5.2.2 Operation

The Project's net increase in operational emissions over existing conditions was estimated using CalEEMod as described in Section 4.1.2. As discussed therein, only on-site energy (natural gas) was considered. Operational emissions calculations and model outputs are provided in Appendix A. Table 9, *Net Daily Operational Emissions*, presents the summary of the net increase in operational emissions for the Project.

**Table 9**  
**NET DAILY OPERATIONAL EMISSIONS**

Category	Pollutant Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Total Daily Emissions</b>	<b>1</b>	<b>8</b>	<b>7</b>	<b>&lt;0.5</b>	<b>1</b>	<b>1</b>
<i>SDAPCD Thresholds</i>	<i>75</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>55</i>
<b>Significant Impact?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod (output data is provided in Appendix A)

VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; CO = carbon monoxide; SO<sub>2</sub> = sulfur dioxide;

PM<sub>10</sub> = particulate matter 10 microns or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter

As shown in Table 9, the net increase in emissions of all criteria pollutants associated with the Project's increase in natural gas usage over existing conditions would be below the daily thresholds. Therefore, operation of the Project would not result in a significant impact on air quality.

### **5.3 CUMULATIVELY CONSIDERABLE NET INCREASE OF NONATTAINMENT CRITERIA POLLUTANTS**

The region is a federal and/or state nonattainment area for PM<sub>10</sub>, PM<sub>2.5</sub>, and ozone. The Project would contribute particulates and the ozone precursors VOC and NO<sub>x</sub> to the area during Project construction and operation. As described in Section 5.2, emissions during both construction and operations would not exceed regional thresholds and would not violate an air quality standard or contribute substantially to an existing or projected air quality violation. Therefore, emissions would not be cumulatively considerable, and impacts would be less than significant.

### **5.4 IMPACTS TO SENSITIVE RECEPTORS**

Impacts to sensitive receptors are typically analyzed for operational period CO hotspots and exposure to TACs. An analysis of the Project's potential to expose sensitive receptors to these pollutants is provided below.

#### **5.4.1 Carbon Monoxide Hotspots**

Localized air quality effects occur when emissions from vehicular traffic increase in local areas. The primary mobile source pollutant of local concern is CO, which is a direct function of vehicle idling time and, thus, traffic flow conditions. CO transport is extremely limited; it disperses rapidly with distance from the source under normal meteorological conditions. However, under certain extreme meteorological conditions, CO concentrations proximate to a congested roadway or intersection may reach unhealthful levels affecting local sensitive receptors (residents, school children, the elderly, hospital patients, etc.). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. If a project generates vehicular traffic that increases average delay at signalized intersections operating at Level of Service (LOS) E or F or causes an intersection that would operate at LOS D or better without the project to operate at LOS E or F with the project, the project could result in significant CO hotspot-related effects to sensitive receptors.

The proposed Project would not increase the number of hospital beds and therefore is not anticipated to result in an increase to existing vehicle trips to and from the site. As such, the Project would not affect roadways or intersections in a manner that would result in CO hotspots. No impact would occur.

#### **5.4.2 Exposure to Toxic Air Contaminants**

##### **5.4.2.1 Construction**

Diesel engines emit a complex mixture of air pollutants, including gaseous material and DPM. DPM emissions would be released from the on-site construction equipment associated with the Project. CARB has declared that DPM from diesel engine exhaust is a TAC. Additionally, the Office of Environmental Health Hazard Assessment has determined that chronic exposure to DPM can cause carcinogenic and

non-carcinogenic health effects. For this reason, although other pollutants would be generated, DPM would be the primary pollutant of concern.

The dose to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Thus, the risks estimated for a maximally exposed individual (MEI) are higher if a fixed exposure occurs over a longer time period. According to the Office of Environmental Health Hazard Assessment, health risk assessments (HRAs), which determine the exposure of sensitive receptors to TAC emissions, should be based on a 30-year exposure period; however, such assessments should be limited to the period/duration of activities associated with a project.

There would be relatively few pieces of off-road, heavy-duty diesel equipment operating at a given time during Project construction, and the construction period would be relatively short, especially when compared to 30 years. Further, the Project includes multiple components at different areas throughout the Project site, and construction equipment would not be operating in a single location with the potential to affect a given receptor for the entire duration of Project construction. As shown above in Table 8, the highest daily emission of PM<sub>10</sub> (which includes equipment emissions of DPM) during construction would be approximately 8 pounds per day, which would be well below the 100 pounds per day significance level threshold. As discussed above in Section 2.1.1, these significance level thresholds were developed with the purpose of attaining the NAAQS and CAAQS, which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. Combined with the highly dispersive properties of diesel PM, construction-related emissions would not expose sensitive receptors to substantial emissions of TACs. Impacts from construction emissions would be less than significant.

#### **5.4.2.2 Operation**

CARB siting recommendations within the *Air Quality and Land Use Handbook* suggest a detailed health risk assessment should be conducted for sensitive receptors within 1,000 feet of a warehouse distribution center, within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater), 50 feet of a typical gas dispensing facilities, or within 300 feet of a dry cleaning facility that uses perchloroethylene (PCE), among other siting recommendations (CARB 2005). The Project does not include these types of sources and would not represent a substantial sources of TACs that could affect sensitive receptors. Further, because the Project would be redeveloping existing uses, it would not introduce new sources of TACs. No impacts would occur.

### **5.5 ODORS**

As discussed above in Section 2.3, the State of California Health and Safety Code Sections 41700 and 41705, and SDAPCD Rule 51, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. Any unreasonable odor discernible at the property line of the Project site will be considered a significant odor impact.

The Project could produce odors during proposed construction activities from construction equipment exhaust, application of asphalt, and/or the application of architectural coatings; however, standard construction practices would minimize the odor emissions and their associated impacts. Furthermore, odors emitted during construction would be temporary, short-term, and intermittent in nature, and

would cease upon the completion of the respective phase of construction. Accordingly, the proposed Project would not create objectionable odors affecting a substantial number of people during construction, and short-term impacts would be less than significant.

During Project operation, the temporary storage of refuse at the proposed waste dock could be a potential source of odor; however, Project-generated refuse is required to be stored in covered containers and removed at regular intervals in compliance with the City's Municipal Code solid waste regulations, thereby precluding significant odor impacts. Furthermore, the proposed Project would be required to comply with the aforementioned SDAPCD Rule 51 which prohibits the discharge of odorous emissions that would create a public nuisance. As such, long-term operation of the proposed Project would not create objectionable odors affecting a substantial number of people. Impacts would be less than significant.

## 6.0 LIST OF PREPARERS

Victor Ortiz	Senior Air Quality Specialist
Hunter Stapp	Air Quality Analyst
Joanne Dramko, AICP	Principal Air Quality Specialist, Quality Assurance Reviewer
Andrea Bitterling	Project Manager

HELIX Environmental Planning, Inc.  
7578 El Cajon Boulevard  
La Mesa, CA 91942

## 7.0 REFERENCES

- California Air Pollution Control Officers Association (CAPCOA). 2021. California Emission Estimator Model (CalEEMod) Version 2016.3.2. Released May.
- California Air Resources Board (CARB). 2021a. California Ambient Air Quality Standards. Available at: <https://ww2.arb.ca.gov/resources/california-ambient-air-quality-standards>. Accessed June 2021.
- 2021b. iAdam Air Quality Data Statistics – Top 4 Measurements and Days Above the Standard. Available at: <https://www.arb.ca.gov/adam/topfour/topfour1.php>. Accessed June 2021.
2016. Ambient Air Quality Standards. May 4. Available at: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.
2005. Air Quality and Land Use Handbook: A Community Health Perspective. April.
- City of San Diego. 2016. California Environmental Quality Act Significance Determination Thresholds. Development Services Department.
- Iowa Environmental Mesonet. 2021. [MYF] San Diego/Montg Windrose Plot. Available at: [https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=MYF&network=CA\\_ASOS](https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=MYF&network=CA_ASOS). Accessed May 2021.
- San Diego County Air Pollution Control District (SDAPCD). 2020. 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County. October.
2019. San Diego County Air Pollution Control District (SDAPCD). 2019. Attainment Status. <https://www.sdapcd.org/content/sdc/apcd/en/air-quality-planning/attainment-status.html>. Accessed June 2021.
- U.S. Environmental Protection Agency (USEPA). 2021. Criteria Air Pollutants. Last updated March 22, 2021. Available at: <https://www.epa.gov/criteria-air-pollutants>. Accessed June 2021.
2020. Green Book 8-Hour Ozone (2015) Area Information. Available at: <https://www.epa.gov/green-book/green-book-8-hour-ozone-2015-area-information>. Accessed June 2021.
- Western Regional Climate Center. 2016. Period of Record Monthly Climate Summary, San Diego SeaWorld, California (047741). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7741>. Accessed May 2021.



This page intentionally left blank

# Appendix A

---

CalEEMod Output

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**Mary Birch Expansion/Waste Dock Construction/CEP Renovation**

**San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	89.20	1000sqft	2.53	89,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2031
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Mary Birch: 6-level building; 86,000 SF

Waste Dock: 1-level building; 3,200 SF

Existing CEP: 15,750 SF

Site area: 2.53 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

## Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	42.00
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	3.00	22.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	11,121.00
tblGrading	MaterialExported	0.00	262.00
tblLandUse	LotAcreage	2.05	2.53
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

tblVehicleTrips	WD_TR	10.72	0.00
-----------------	-------	-------	------

**2.0 Emissions Summary**

---

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2023	3.7220	38.5350	32.1611	0.0843	11.0553	1.4920	12.5473	3.7207	1.3941	5.1148						
2024	2.7659	22.8602	28.9629	0.0524	0.5123	1.0007	1.5131	0.1382	0.9471	1.0853						
<b>Maximum</b>	<b>3.7220</b>	<b>38.5350</b>	<b>32.1611</b>	<b>0.0843</b>	<b>11.0553</b>	<b>1.4920</b>	<b>12.5473</b>	<b>3.7207</b>	<b>1.3941</b>	<b>5.1148</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					
2023	3.7220	38.5350	32.1611	0.0843	5.4942	1.4920	6.9862	1.8340	1.3941	3.2281						
2024	2.7659	22.8602	28.9629	0.0524	0.5123	1.0007	1.5131	0.1382	0.9471	1.0853						
<b>Maximum</b>	<b>3.7220</b>	<b>38.5350</b>	<b>32.1611</b>	<b>0.0843</b>	<b>5.4942</b>	<b>1.4920</b>	<b>6.9862</b>	<b>1.8340</b>	<b>1.3941</b>	<b>3.2281</b>						

## Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	48.07	0.00	39.55	48.89	0.00	30.43	0.00	0.00	0.00	0.00	0.00	0.00

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Energy	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						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</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	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Energy	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						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>						



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1/1/2023	1/31/2023	5	22	
2	Site Preparation	Site Preparation	1/1/2023	1/31/2023	5	22	
3	Underground Infrastructure/Utilities	Trenching	1/1/2023	6/30/2023	5	130	
4	Building Construction	Building Construction	2/1/2023	12/31/2024	5	500	
5	Grading	Grading	2/2/2023	3/31/2023	5	42	
6	Paving	Paving	7/1/2024	12/31/2024	5	132	
7	Architectural Coating	Architectural Coating	7/1/2024	12/31/2024	5	132	

**Acres of Grading (Site Preparation Phase): 33**

**Acres of Grading (Grading Phase): 42**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 133,800; Non-Residential Outdoor: 44,600; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	855.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	33.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	29.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,390.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 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					
Fugitive Dust					8.5187	0.0000	8.5187	1.2900	0.0000	1.2900						
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328						
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>	<b>8.5187</b>	<b>0.6766</b>	<b>9.1953</b>	<b>1.2900</b>	<b>0.6328</b>	<b>1.9228</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.2 Demolition - 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	0.0880	5.0839	1.3966	0.0233	0.6797	0.0432	0.7229	0.1863	0.0413	0.2276						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289						
<b>Total</b>	<b>0.1235</b>	<b>5.1060</b>	<b>1.7086</b>	<b>0.0242</b>	<b>0.7865</b>	<b>0.0437</b>	<b>0.8302</b>	<b>0.2147</b>	<b>0.0418</b>	<b>0.2565</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					3.8334	0.0000	3.8334	0.5805	0.0000	0.5805						
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328						
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>	<b>3.8334</b>	<b>0.6766</b>	<b>4.5100</b>	<b>0.5805</b>	<b>0.6328</b>	<b>1.2133</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.2 Demolition - 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	0.0880	5.0839	1.3966	0.0233	0.6797	0.0432	0.7229	0.1863	0.0413	0.2276						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0355	0.0221	0.3120	9.4000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289						
<b>Total</b>	<b>0.1235</b>	<b>5.1060</b>	<b>1.7086</b>	<b>0.0242</b>	<b>0.7865</b>	<b>0.0437</b>	<b>0.8302</b>	<b>0.2147</b>	<b>0.0418</b>	<b>0.2565</b>						

**3.3 Site Preparation - 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					
Fugitive Dust					1.5924	0.0000	1.5924	0.1720	0.0000	0.1720						
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985						
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5924</b>	<b>0.5419</b>	<b>2.1343</b>	<b>0.1720</b>	<b>0.4985</b>	<b>0.6706</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.3 Site Preparation - 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	3.4000e-003	0.1962	0.0539	9.0000e-004	0.0262	1.6700e-003	0.0279	7.1900e-003	1.5900e-003	8.7800e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0253</b>	<b>0.2098</b>	<b>0.2459</b>	<b>1.4800e-003</b>	<b>0.0920</b>	<b>2.0200e-003</b>	<b>0.0940</b>	<b>0.0246</b>	<b>1.9100e-003</b>	<b>0.0265</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					0.7166	0.0000	0.7166	0.0774	0.0000	0.0774						
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985						
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>0.7166</b>	<b>0.5419</b>	<b>1.2585</b>	<b>0.0774</b>	<b>0.4985</b>	<b>0.5759</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.3 Site Preparation - 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	3.4000e-003	0.1962	0.0539	9.0000e-004	0.0262	1.6700e-003	0.0279	7.1900e-003	1.5900e-003	8.7800e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0253</b>	<b>0.2098</b>	<b>0.2459</b>	<b>1.4800e-003</b>	<b>0.0920</b>	<b>2.0200e-003</b>	<b>0.0940</b>	<b>0.0246</b>	<b>1.9100e-003</b>	<b>0.0265</b>						

**3.4 Underground Infrastructure/Utilities - 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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092						
<b>Total</b>	<b>0.4541</b>	<b>4.6070</b>	<b>6.6940</b>	<b>9.3500e-003</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.4 Underground Infrastructure/Utilities - 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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0219</b>	<b>0.0136</b>	<b>0.1920</b>	<b>5.8000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092						
<b>Total</b>	<b>0.4541</b>	<b>4.6070</b>	<b>6.6940</b>	<b>9.3500e-003</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>						



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.4 Underground Infrastructure/Utilities - 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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0219</b>	<b>0.0136</b>	<b>0.1920</b>	<b>5.8000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880						
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Vendor	0.0179	0.6430	0.2317	3.0700e-003	0.1016	3.9200e-003	0.1055	0.0293	3.7500e-003	0.0330						
Worker	0.0793	0.0492	0.6960	2.1000e-003	0.2382	1.2800e-003	0.2395	0.0632	1.1800e-003	0.0644						
<b>Total</b>	<b>0.0972</b>	<b>0.6922</b>	<b>0.9277</b>	<b>5.1700e-003</b>	<b>0.3398</b>	<b>5.2000e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9300e-003</b>	<b>0.0974</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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880						
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Vendor	0.0179	0.6430	0.2317	3.0700e-003	0.1016	3.9200e-003	0.1055	0.0293	3.7500e-003	0.0330						
Worker	0.0793	0.0492	0.6960	2.1000e-003	0.2382	1.2800e-003	0.2395	0.0632	1.1800e-003	0.0644						
<b>Total</b>	<b>0.0972</b>	<b>0.6922</b>	<b>0.9277</b>	<b>5.1700e-003</b>	<b>0.3398</b>	<b>5.2000e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9300e-003</b>	<b>0.0974</b>						

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153						
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0173	0.6386	0.2263	3.0100e-003	0.1016	3.9400e-003	0.1055	0.0293	3.7700e-003	0.0330						
Worker	0.0744	0.0443	0.6493	2.0400e-003	0.2382	1.2200e-003	0.2394	0.0632	1.1200e-003	0.0643						
<b>Total</b>	<b>0.0917</b>	<b>0.6829</b>	<b>0.8756</b>	<b>5.0500e-003</b>	<b>0.3398</b>	<b>5.1600e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.8900e-003</b>	<b>0.0973</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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153						
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0173	0.6386	0.2263	3.0100e-003	0.1016	3.9400e-003	0.1055	0.0293	3.7700e-003	0.0330						
Worker	0.0744	0.0443	0.6493	2.0400e-003	0.2382	1.2200e-003	0.2394	0.0632	1.1200e-003	0.0643						
<b>Total</b>	<b>0.0917</b>	<b>0.6829</b>	<b>0.8756</b>	<b>5.0500e-003</b>	<b>0.3398</b>	<b>5.1600e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.8900e-003</b>	<b>0.0973</b>						

**3.6 Grading - 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					
Fugitive Dust					7.1198	0.0000	7.1198	3.4304	0.0000	3.4304						
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560						
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>7.1198</b>	<b>0.6044</b>	<b>7.7241</b>	<b>3.4304</b>	<b>0.5560</b>	<b>3.9864</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.6 Grading - 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	0.0750	4.3293	1.1893	0.0198	0.5788	0.0367	0.6156	0.1587	0.0352	0.1938						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222						
<b>Total</b>	<b>0.1023</b>	<b>4.3463</b>	<b>1.4293</b>	<b>0.0205</b>	<b>0.6610</b>	<b>0.0372</b>	<b>0.6982</b>	<b>0.1805</b>	<b>0.0356</b>	<b>0.2160</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					3.2039	0.0000	3.2039	1.5437	0.0000	1.5437						
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560						
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>3.2039</b>	<b>0.6044</b>	<b>3.8083</b>	<b>1.5437</b>	<b>0.5560</b>	<b>2.0997</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.6 Grading - 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	0.0750	4.3293	1.1893	0.0198	0.5788	0.0367	0.6156	0.1587	0.0352	0.1938						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222						
<b>Total</b>	<b>0.1023</b>	<b>4.3463</b>	<b>1.4293</b>	<b>0.0205</b>	<b>0.6610</b>	<b>0.0372</b>	<b>0.6982</b>	<b>0.1805</b>	<b>0.0356</b>	<b>0.2160</b>						

**3.7 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.8425</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.7 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0385	0.0229	0.3358	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333						
<b>Total</b>	<b>0.0385</b>	<b>0.0229</b>	<b>0.3358</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</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	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.8425</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>						



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.7 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0385	0.0229	0.3358	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333						
<b>Total</b>	<b>0.0385</b>	<b>0.0229</b>	<b>0.3358</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</b>						

**3.8 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609						
<b>Total</b>	<b>0.1808</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.8 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0154	9.1600e-003	0.1343	4.2000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133						
<b>Total</b>	<b>0.0154</b>	<b>9.1600e-003</b>	<b>0.1343</b>	<b>4.2000e-004</b>	<b>0.0493</b>	<b>2.5000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.3000e-004</b>	<b>0.0133</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609						
<b>Total</b>	<b>0.1808</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**3.8 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0154	9.1600e-003	0.1343	4.2000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133						
<b>Total</b>	<b>0.0154</b>	<b>9.1600e-003</b>	<b>0.1343</b>	<b>4.2000e-004</b>	<b>0.0493</b>	<b>2.5000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.3000e-004</b>	<b>0.0133</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.577179	0.061600	0.170467	0.111784	0.022784	0.006561	0.009937	0.006297	0.000673	0.000632	0.027431	0.000836	0.003819

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**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					
Hospital	0	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>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Unmitigated	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Summer

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**Mary Birch Expansion/Waste Dock Construction/CEP Renovation  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	89.20	1000sqft	2.53	89,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2031
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Mary Birch: 6-level building; 86,000 SF

Waste Dock: 1-level building; 3,200 SF

Existing CEP: 15,750 SF

Site area: 2.53 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

## Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	42.00
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	3.00	22.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	11,121.00
tblGrading	MaterialExported	0.00	262.00
tblLandUse	LotAcreage	2.05	2.53
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

tblVehicleTrips	WD_TR	10.72	0.00
-----------------	-------	-------	------

**2.0 Emissions Summary**

---

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2023	3.7279	38.7541	32.1268	0.0842	11.0553	1.4921	12.5474	3.7207	1.3942	5.1149						
2024	2.7765	22.8967	28.9163	0.0522	0.5123	1.0007	1.5131	0.1382	0.9471	1.0853						
<b>Maximum</b>	<b>3.7279</b>	<b>38.7541</b>	<b>32.1268</b>	<b>0.0842</b>	<b>11.0553</b>	<b>1.4921</b>	<b>12.5474</b>	<b>3.7207</b>	<b>1.3942</b>	<b>5.1149</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					
2023	3.7279	38.7541	32.1268	0.0842	5.4942	1.4921	6.9863	1.8340	1.3942	3.2282						
2024	2.7765	22.8967	28.9163	0.0522	0.5123	1.0007	1.5131	0.1382	0.9471	1.0853						
<b>Maximum</b>	<b>3.7279</b>	<b>38.7541</b>	<b>32.1268</b>	<b>0.0842</b>	<b>5.4942</b>	<b>1.4921</b>	<b>6.9863</b>	<b>1.8340</b>	<b>1.3942</b>	<b>3.2282</b>						

## Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	48.07	0.00	39.55	48.89	0.00	30.43	0.00	0.00	0.00	0.00	0.00	0.00

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Energy	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						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</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	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Energy	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						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1/1/2023	1/31/2023	5	22	
2	Site Preparation	Site Preparation	1/1/2023	1/31/2023	5	22	
3	Underground Infrastructure/Utilities	Trenching	1/1/2023	6/30/2023	5	130	
4	Building Construction	Building Construction	2/1/2023	12/31/2024	5	500	
5	Grading	Grading	2/2/2023	3/31/2023	5	42	
6	Paving	Paving	7/1/2024	12/31/2024	5	132	
7	Architectural Coating	Architectural Coating	7/1/2024	12/31/2024	5	132	

**Acres of Grading (Site Preparation Phase): 33**

**Acres of Grading (Grading Phase): 42**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 133,800; Non-Residential Outdoor: 44,600; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	855.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	33.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	29.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,390.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 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					
Fugitive Dust					8.5187	0.0000	8.5187	1.2900	0.0000	1.2900						
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328						
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>	<b>8.5187</b>	<b>0.6766</b>	<b>9.1953</b>	<b>1.2900</b>	<b>0.6328</b>	<b>1.9228</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.2 Demolition - 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	0.0827	5.2890	1.4140	0.0233	0.6797	0.0432	0.7230	0.1863	0.0414	0.2277						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289						
<b>Total</b>	<b>0.1213</b>	<b>5.3138</b>	<b>1.7104</b>	<b>0.0242</b>	<b>0.7865</b>	<b>0.0438</b>	<b>0.8303</b>	<b>0.2147</b>	<b>0.0419</b>	<b>0.2565</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					3.8334	0.0000	3.8334	0.5805	0.0000	0.5805						
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328						
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>	<b>3.8334</b>	<b>0.6766</b>	<b>4.5100</b>	<b>0.5805</b>	<b>0.6328</b>	<b>1.2133</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.2 Demolition - 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	0.0827	5.2890	1.4140	0.0233	0.6797	0.0432	0.7230	0.1863	0.0414	0.2277						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0385	0.0248	0.2965	8.9000e-004	0.1068	5.7000e-004	0.1074	0.0283	5.3000e-004	0.0289						
<b>Total</b>	<b>0.1213</b>	<b>5.3138</b>	<b>1.7104</b>	<b>0.0242</b>	<b>0.7865</b>	<b>0.0438</b>	<b>0.8303</b>	<b>0.2147</b>	<b>0.0419</b>	<b>0.2565</b>						

**3.3 Site Preparation - 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					
Fugitive Dust					1.5924	0.0000	1.5924	0.1720	0.0000	0.1720						
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985						
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5924</b>	<b>0.5419</b>	<b>2.1343</b>	<b>0.1720</b>	<b>0.4985</b>	<b>0.6706</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.3 Site Preparation - 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	3.1900e-003	0.2041	0.0546	9.0000e-004	0.0262	1.6700e-003	0.0279	7.1900e-003	1.6000e-003	8.7900e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0237	0.0153	0.1824	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0269</b>	<b>0.2194</b>	<b>0.2370</b>	<b>1.4500e-003</b>	<b>0.0920</b>	<b>2.0200e-003</b>	<b>0.0940</b>	<b>0.0246</b>	<b>1.9200e-003</b>	<b>0.0266</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					0.7166	0.0000	0.7166	0.0774	0.0000	0.0774						
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985						
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>0.7166</b>	<b>0.5419</b>	<b>1.2585</b>	<b>0.0774</b>	<b>0.4985</b>	<b>0.5759</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.3 Site Preparation - 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	3.1900e-003	0.2041	0.0546	9.0000e-004	0.0262	1.6700e-003	0.0279	7.1900e-003	1.6000e-003	8.7900e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0237	0.0153	0.1824	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0269</b>	<b>0.2194</b>	<b>0.2370</b>	<b>1.4500e-003</b>	<b>0.0920</b>	<b>2.0200e-003</b>	<b>0.0940</b>	<b>0.0246</b>	<b>1.9200e-003</b>	<b>0.0266</b>						

**3.4 Underground Infrastructure/Utilities - 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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092						
<b>Total</b>	<b>0.4541</b>	<b>4.6070</b>	<b>6.6940</b>	<b>9.3500e-003</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.4 Underground Infrastructure/Utilities - 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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0237	0.0153	0.1824	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0237</b>	<b>0.0153</b>	<b>0.1824</b>	<b>5.5000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092						
<b>Total</b>	<b>0.4541</b>	<b>4.6070</b>	<b>6.6940</b>	<b>9.3500e-003</b>		<b>0.2274</b>	<b>0.2274</b>		<b>0.2092</b>	<b>0.2092</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.4 Underground Infrastructure/Utilities - 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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0237	0.0153	0.1824	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178						
<b>Total</b>	<b>0.0237</b>	<b>0.0153</b>	<b>0.1824</b>	<b>5.5000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880						
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>						



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Vendor	0.0174	0.6701	0.2387	3.0800e-003	0.1016	3.9400e-003	0.1055	0.0293	3.7700e-003	0.0330						
Worker	0.0859	0.0554	0.6613	1.9900e-003	0.2382	1.2800e-003	0.2395	0.0632	1.1800e-003	0.0644						
<b>Total</b>	<b>0.1034</b>	<b>0.7254</b>	<b>0.9001</b>	<b>5.0700e-003</b>	<b>0.3398</b>	<b>5.2200e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9500e-003</b>	<b>0.0974</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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880						
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Vendor	0.0174	0.6701	0.2387	3.0800e-003	0.1016	3.9400e-003	0.1055	0.0293	3.7700e-003	0.0330						
Worker	0.0859	0.0554	0.6613	1.9900e-003	0.2382	1.2800e-003	0.2395	0.0632	1.1800e-003	0.0644						
<b>Total</b>	<b>0.1034</b>	<b>0.7254</b>	<b>0.9001</b>	<b>5.0700e-003</b>	<b>0.3398</b>	<b>5.2200e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9500e-003</b>	<b>0.0974</b>						

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153						
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0167	0.6656	0.2333	3.0200e-003	0.1016	3.9500e-003	0.1056	0.0293	3.7800e-003	0.0330						
Worker	0.0809	0.0498	0.6182	1.9200e-003	0.2382	1.2200e-003	0.2394	0.0632	1.1200e-003	0.0643						
<b>Total</b>	<b>0.0976</b>	<b>0.7153</b>	<b>0.8515</b>	<b>4.9400e-003</b>	<b>0.3398</b>	<b>5.1700e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9000e-003</b>	<b>0.0973</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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153						
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0167	0.6656	0.2333	3.0200e-003	0.1016	3.9500e-003	0.1056	0.0293	3.7800e-003	0.0330						
Worker	0.0809	0.0498	0.6182	1.9200e-003	0.2382	1.2200e-003	0.2394	0.0632	1.1200e-003	0.0643						
<b>Total</b>	<b>0.0976</b>	<b>0.7153</b>	<b>0.8515</b>	<b>4.9400e-003</b>	<b>0.3398</b>	<b>5.1700e-003</b>	<b>0.3450</b>	<b>0.0924</b>	<b>4.9000e-003</b>	<b>0.0973</b>						

**3.6 Grading - 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					
Fugitive Dust					7.1198	0.0000	7.1198	3.4304	0.0000	3.4304						
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560						
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>7.1198</b>	<b>0.6044</b>	<b>7.7241</b>	<b>3.4304</b>	<b>0.5560</b>	<b>3.9864</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.6 Grading - 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	0.0705	4.5039	1.2041	0.0198	0.5788	0.0368	0.6157	0.1587	0.0352	0.1939						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0296	0.0191	0.2281	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222						
<b>Total</b>	<b>0.1001</b>	<b>4.5230</b>	<b>1.4321</b>	<b>0.0205</b>	<b>0.6610</b>	<b>0.0373</b>	<b>0.6983</b>	<b>0.1805</b>	<b>0.0356</b>	<b>0.2161</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					3.2039	0.0000	3.2039	1.5437	0.0000	1.5437						
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560						
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>3.2039</b>	<b>0.6044</b>	<b>3.8083</b>	<b>1.5437</b>	<b>0.5560</b>	<b>2.0997</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.6 Grading - 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	0.0705	4.5039	1.2041	0.0198	0.5788	0.0368	0.6157	0.1587	0.0352	0.1939						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0296	0.0191	0.2281	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222						
<b>Total</b>	<b>0.1001</b>	<b>4.5230</b>	<b>1.4321</b>	<b>0.0205</b>	<b>0.6610</b>	<b>0.0373</b>	<b>0.6983</b>	<b>0.1805</b>	<b>0.0356</b>	<b>0.2161</b>						

**3.7 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.8425</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.7 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0418	0.0257	0.3198	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333						
<b>Total</b>	<b>0.0418</b>	<b>0.0257</b>	<b>0.3198</b>	<b>1.0000e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</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	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.8425</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.7 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0418	0.0257	0.3198	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333						
<b>Total</b>	<b>0.0418</b>	<b>0.0257</b>	<b>0.3198</b>	<b>1.0000e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</b>						

**3.8 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609						
<b>Total</b>	<b>0.1808</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>						



Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.8 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0167	0.0103	0.1279	4.0000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133						
<b>Total</b>	<b>0.0167</b>	<b>0.0103</b>	<b>0.1279</b>	<b>4.0000e-004</b>	<b>0.0493</b>	<b>2.5000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.3000e-004</b>	<b>0.0133</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609						
<b>Total</b>	<b>0.1808</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**3.8 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0167	0.0103	0.1279	4.0000e-004	0.0493	2.5000e-004	0.0495	0.0131	2.3000e-004	0.0133						
<b>Total</b>	<b>0.0167</b>	<b>0.0103</b>	<b>0.1279</b>	<b>4.0000e-004</b>	<b>0.0493</b>	<b>2.5000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.3000e-004</b>	<b>0.0133</b>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.577179	0.061600	0.170467	0.111784	0.022784	0.006561	0.009937	0.006297	0.000673	0.000632	0.027431	0.000836	0.003819

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**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					
Hospital	0	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>						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
Unmitigated	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000							
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000							
Landscaping	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>							

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	8.3000e-004	8.0000e-005	9.0600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						
<b>Total</b>	<b>8.3000e-004</b>	<b>8.0000e-005</b>	<b>9.0600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Mary Birch Expansion/Waste Dock Construction/CEP Renovation - San Diego County, Winter

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**Hospital Tower Construction/Rady Bridge Replacement**

**San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	209.32	1000sqft	2.00	209,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Hospital Tower: 7-level building; 207,000 SF

New Bridge: 2,320 SF

Site Area: 1.996 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	200.00	957.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	4.00	41.00
tblConstructionPhase	NumDays	10.00	130.00
tblConstructionPhase	NumDays	2.00	23.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	937.00
tblGrading	MaterialExported	0.00	33.50
tblLandUse	LotAcreage	4.81	2.00
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00
tblVehicleTrips	WD_TR	10.72	0.00

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**2.0 Emissions Summary**

---

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.1610	28.7581	30.0134	0.0661	8.5959	1.0663	9.5716	3.6904	0.9989	4.6893						
2026	1.5144	11.9152	14.2603	0.0330	0.7807	0.4039	1.1845	0.2123	0.3893	0.6016						
2027	1.5052	11.8931	14.1850	0.0327	0.7807	0.4036	1.1843	0.2123	0.3891	0.6014						
2028	2.2937	18.3740	25.1898	0.0506	0.9943	0.7023	1.6965	0.2689	0.6688	0.9378						
<b>Maximum</b>	<b>3.1610</b>	<b>28.7581</b>	<b>30.0134</b>	<b>0.0661</b>	<b>8.5959</b>	<b>1.0663</b>	<b>9.5716</b>	<b>3.6904</b>	<b>0.9989</b>	<b>4.6893</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	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						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</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	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	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						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1/1/2025	1/31/2025	5	23	
2	Site Preparation	Site Preparation	1/1/2025	1/31/2025	5	23	
3	Grading	Grading	2/1/2025	3/31/2025	5	41	
4	Underground Infrastructure/Utilities	Trenching	2/1/2025	7/31/2025	5	129	
5	Building Construction	Building Construction	3/1/2025	10/31/2028	5	957	
6	Paving	Paving	4/1/2028	9/29/2028	5	130	
7	Architectural Coating	Architectural Coating	5/1/2028	10/31/2028	5	132	

**Acres of Grading (Site Preparation Phase): 21.56**

**Acres of Grading (Grading Phase): 41**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 313,980; Non-Residential Outdoor: 104,660; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37

**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	5	13.00	0.00	210.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	117.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	67.00	34.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9970	0.0000	1.9970	0.3024	0.0000	0.3024						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>1.9970</b>	<b>0.5452</b>	<b>2.5423</b>	<b>0.3024</b>	<b>0.5091</b>	<b>0.8115</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.2 Demolition - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0202	1.1679	0.3374	5.2300e-003	0.1597	0.0102	0.1699	0.0438	9.7200e-003	0.0535						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0314	0.0180	0.2725	8.8000e-004	0.1068	5.2000e-004	0.1073	0.0283	4.8000e-004	0.0288						
<b>Total</b>	<b>0.0516</b>	<b>1.1859</b>	<b>0.6099</b>	<b>6.1100e-003</b>	<b>0.2665</b>	<b>0.0107</b>	<b>0.2772</b>	<b>0.0721</b>	<b>0.0102</b>	<b>0.0823</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					0.8987	0.0000	0.8987	0.1361	0.0000	0.1361						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>0.8987</b>	<b>0.5452</b>	<b>1.4439</b>	<b>0.1361</b>	<b>0.5091</b>	<b>0.6451</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.2 Demolition - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0202	1.1679	0.3374	5.2300e-003	0.1597	0.0102	0.1699	0.0438	9.7200e-003	0.0535						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0314	0.0180	0.2725	8.8000e-004	0.1068	5.2000e-004	0.1073	0.0283	4.8000e-004	0.0288						
<b>Total</b>	<b>0.0516</b>	<b>1.1859</b>	<b>0.6099</b>	<b>6.1100e-003</b>	<b>0.2665</b>	<b>0.0107</b>	<b>0.2772</b>	<b>0.0721</b>	<b>0.0102</b>	<b>0.0823</b>						

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2636	0.0000	6.2636	3.0038	0.0000	3.0038						
Off-Road	1.0103	10.5940	6.4468	0.0172		0.4192	0.4192		0.3857	0.3857						
<b>Total</b>	<b>1.0103</b>	<b>10.5940</b>	<b>6.4468</b>	<b>0.0172</b>	<b>6.2636</b>	<b>0.4192</b>	<b>6.6829</b>	<b>3.0038</b>	<b>0.3857</b>	<b>3.3895</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.3 Site Preparation - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8000e-004	0.0223	6.4300e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2400e-003	8.3000e-004	1.9000e-004	1.0200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0197</b>	<b>0.0333</b>	<b>0.1741</b>	<b>6.4000e-004</b>	<b>0.0688</b>	<b>5.1000e-004</b>	<b>0.0693</b>	<b>0.0183</b>	<b>4.8000e-004</b>	<b>0.0188</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					2.8186	0.0000	2.8186	1.3517	0.0000	1.3517						
Off-Road	1.0103	10.5940	6.4468	0.0172		0.4192	0.4192		0.3857	0.3857						
<b>Total</b>	<b>1.0103</b>	<b>10.5940</b>	<b>6.4468</b>	<b>0.0172</b>	<b>2.8186</b>	<b>0.4192</b>	<b>3.2379</b>	<b>1.3517</b>	<b>0.3857</b>	<b>1.7374</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.3 Site Preparation - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8000e-004	0.0223	6.4300e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2400e-003	8.3000e-004	1.9000e-004	1.0200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0197</b>	<b>0.0333</b>	<b>0.1741</b>	<b>6.4000e-004</b>	<b>0.0688</b>	<b>5.1000e-004</b>	<b>0.0693</b>	<b>0.0183</b>	<b>4.8000e-004</b>	<b>0.0188</b>						

**3.4 Grading - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0858	0.0000	7.0858	3.4252	0.0000	3.4252						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0858</b>	<b>0.4961</b>	<b>7.5819</b>	<b>3.4252</b>	<b>0.4564</b>	<b>3.8816</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.4 Grading - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3100e-003	0.3650	0.1055	1.6300e-003	0.0499	3.1800e-003	0.0531	0.0137	3.0400e-003	0.0167						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0242	0.0138	0.2096	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222						
<b>Total</b>	<b>0.0305</b>	<b>0.3788</b>	<b>0.3151</b>	<b>2.3100e-003</b>	<b>0.1321</b>	<b>3.5800e-003</b>	<b>0.1356</b>	<b>0.0355</b>	<b>3.4100e-003</b>	<b>0.0389</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					3.1886	0.0000	3.1886	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1886</b>	<b>0.4961</b>	<b>3.6847</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9977</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.4 Grading - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3100e-003	0.3650	0.1055	1.6300e-003	0.0499	3.1800e-003	0.0531	0.0137	3.0400e-003	0.0167						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0242	0.0138	0.2096	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222						
<b>Total</b>	<b>0.0305</b>	<b>0.3788</b>	<b>0.3151</b>	<b>2.3100e-003</b>	<b>0.1321</b>	<b>3.5800e-003</b>	<b>0.1356</b>	<b>0.0355</b>	<b>3.4100e-003</b>	<b>0.0389</b>						

**3.5 Underground Infrastructure/Utilities - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	4.0053	6.6890	9.3600e-003		0.1623	0.1623		0.1493	0.1493						
<b>Total</b>	<b>0.3964</b>	<b>4.0053</b>	<b>6.6890</b>	<b>9.3600e-003</b>		<b>0.1623</b>	<b>0.1623</b>		<b>0.1493</b>	<b>0.1493</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0193</b>	<b>0.0111</b>	<b>0.1677</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.2000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.9000e-004</b>	<b>0.0177</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	0.3964	4.0053	6.6890	9.3600e-003		0.1623	0.1623		0.1493	0.1493						
<b>Total</b>	<b>0.3964</b>	<b>4.0053</b>	<b>6.6890</b>	<b>9.3600e-003</b>		<b>0.1623</b>	<b>0.1623</b>		<b>0.1493</b>	<b>0.1493</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0193	0.0111	0.1677	5.4000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0193</b>	<b>0.0111</b>	<b>0.1677</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.2000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.9000e-004</b>	<b>0.0177</b>						

**3.6 Building Construction - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0379	1.4333	0.5044	6.6900e-003	0.2303	8.9000e-003	0.2392	0.0663	8.5100e-003	0.0748						
Worker	0.1619	0.0925	1.4043	4.5400e-003	0.5504	2.6800e-003	0.5531	0.1460	2.4700e-003	0.1485						
<b>Total</b>	<b>0.1998</b>	<b>1.5259</b>	<b>1.9086</b>	<b>0.0112</b>	<b>0.7807</b>	<b>0.0116</b>	<b>0.7922</b>	<b>0.2123</b>	<b>0.0110</b>	<b>0.2233</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0379	1.4333	0.5044	6.6900e-003	0.2303	8.9000e-003	0.2392	0.0663	8.5100e-003	0.0748						
Worker	0.1619	0.0925	1.4043	4.5400e-003	0.5504	2.6800e-003	0.5531	0.1460	2.4700e-003	0.1485						
<b>Total</b>	<b>0.1998</b>	<b>1.5259</b>	<b>1.9086</b>	<b>0.0112</b>	<b>0.7807</b>	<b>0.0116</b>	<b>0.7922</b>	<b>0.2123</b>	<b>0.0110</b>	<b>0.2233</b>						

**3.6 Building Construction - 2026**

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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2026**

**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						
Vendor	0.0369	1.4179	0.4982	6.5500e-003	0.2303	8.8300e-003	0.2391	0.0663	8.4400e-003	0.0747						
Worker	0.1529	0.0845	1.3228	4.4000e-003	0.5504	2.5500e-003	0.5529	0.1460	2.3500e-003	0.1483						
<b>Total</b>	<b>0.1898</b>	<b>1.5024</b>	<b>1.8210</b>	<b>0.0110</b>	<b>0.7807</b>	<b>0.0114</b>	<b>0.7920</b>	<b>0.2123</b>	<b>0.0108</b>	<b>0.2231</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2026**

**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						
Vendor	0.0369	1.4179	0.4982	6.5500e-003	0.2303	8.8300e-003	0.2391	0.0663	8.4400e-003	0.0747						
Worker	0.1529	0.0845	1.3228	4.4000e-003	0.5504	2.5500e-003	0.5529	0.1460	2.3500e-003	0.1483						
<b>Total</b>	<b>0.1898</b>	<b>1.5024</b>	<b>1.8210</b>	<b>0.0110</b>	<b>0.7807</b>	<b>0.0114</b>	<b>0.7920</b>	<b>0.2123</b>	<b>0.0108</b>	<b>0.2231</b>						

**3.6 Building Construction - 2027**

**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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2027**

**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						
Vendor	0.0360	1.4028	0.4932	6.4100e-003	0.2303	8.7500e-003	0.2390	0.0663	8.3700e-003	0.0747						
Worker	0.1446	0.0775	1.2525	4.2700e-003	0.5504	2.4000e-003	0.5528	0.1460	2.2100e-003	0.1482						
<b>Total</b>	<b>0.1806</b>	<b>1.4803</b>	<b>1.7456</b>	<b>0.0107</b>	<b>0.7807</b>	<b>0.0112</b>	<b>0.7918</b>	<b>0.2123</b>	<b>0.0106</b>	<b>0.2229</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2027**

**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						
Vendor	0.0360	1.4028	0.4932	6.4100e-003	0.2303	8.7500e-003	0.2390	0.0663	8.3700e-003	0.0747						
Worker	0.1446	0.0775	1.2525	4.2700e-003	0.5504	2.4000e-003	0.5528	0.1460	2.2100e-003	0.1482						
<b>Total</b>	<b>0.1806</b>	<b>1.4803</b>	<b>1.7456</b>	<b>0.0107</b>	<b>0.7807</b>	<b>0.0112</b>	<b>0.7918</b>	<b>0.2123</b>	<b>0.0106</b>	<b>0.2229</b>						

**3.6 Building Construction - 2028**

**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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0354	1.3904	0.4901	6.2700e-003	0.2303	8.6800e-003	0.2390	0.0663	8.3000e-003	0.0746						
Worker	0.1367	0.0716	1.1931	4.1600e-003	0.5504	2.2400e-003	0.5526	0.1460	2.0600e-003	0.1481						
<b>Total</b>	<b>0.1720</b>	<b>1.4620</b>	<b>1.6832</b>	<b>0.0104</b>	<b>0.7807</b>	<b>0.0109</b>	<b>0.7916</b>	<b>0.2123</b>	<b>0.0104</b>	<b>0.2227</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0354	1.3904	0.4901	6.2700e-003	0.2303	8.6800e-003	0.2390	0.0663	8.3000e-003	0.0746						
Worker	0.1367	0.0716	1.1931	4.1600e-003	0.5504	2.2400e-003	0.5526	0.1460	2.0600e-003	0.1481						
<b>Total</b>	<b>0.1720</b>	<b>1.4620</b>	<b>1.6832</b>	<b>0.0104</b>	<b>0.7807</b>	<b>0.0109</b>	<b>0.7916</b>	<b>0.2123</b>	<b>0.0104</b>	<b>0.2227</b>						

**3.7 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5732	5.3259	8.7951	0.0136		0.2465	0.2465		0.2276	0.2276						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.5732</b>	<b>5.3259</b>	<b>8.7951</b>	<b>0.0136</b>		<b>0.2465</b>	<b>0.2465</b>		<b>0.2276</b>	<b>0.2276</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.7 Paving - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0265</b>	<b>0.0139</b>	<b>0.2315</b>	<b>8.1000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</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	0.5732	5.3259	8.7951	0.0136		0.2465	0.2465		0.2276	0.2276						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.5732</b>	<b>5.3259</b>	<b>8.7951</b>	<b>0.0136</b>		<b>0.2465</b>	<b>0.2465</b>		<b>0.2276</b>	<b>0.2276</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.7 Paving - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0265</b>	<b>0.0139</b>	<b>0.2315</b>	<b>8.1000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</b>						

**3.8 Architectural Coating - 2028**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0265</b>	<b>0.0139</b>	<b>0.2315</b>	<b>8.1000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0265</b>	<b>0.0139</b>	<b>0.2315</b>	<b>8.1000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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							

**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					
Hospital	0	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>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Unmitigated	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Summer

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**Hospital Tower Construction/Rady Bridge Replacement**

**San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	209.32	1000sqft	2.00	209,320.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics -

Land Use - Hospital Tower: 7-level building; 207,000 SF

New Bridge: 2,320 SF

Site Area: 1.996 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

## Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	132.00
tblConstructionPhase	NumDays	200.00	957.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	4.00	41.00
tblConstructionPhase	NumDays	10.00	130.00
tblConstructionPhase	NumDays	2.00	23.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	937.00
tblGrading	MaterialExported	0.00	33.50
tblLandUse	LotAcreage	4.81	2.00
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00
tblVehicleTrips	WD_TR	10.72	0.00

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**2.0 Emissions Summary**

---

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.1777	28.8481	29.9477	0.0658	8.5959	1.0664	9.5716	3.6904	0.9989	4.6893						
2026	1.5272	11.9859	14.2159	0.0328	0.7807	0.4039	1.1846	0.2123	0.3894	0.6016						
2027	1.5175	11.9625	14.1448	0.0325	0.7807	0.4037	1.1843	0.2123	0.3891	0.6014						
2028	2.3106	18.4458	25.1330	0.0503	0.9943	0.7023	1.6966	0.2689	0.6689	0.9378						
<b>Maximum</b>	<b>3.1777</b>	<b>28.8481</b>	<b>29.9477</b>	<b>0.0658</b>	<b>8.5959</b>	<b>1.0664</b>	<b>9.5716</b>	<b>3.6904</b>	<b>0.9989</b>	<b>4.6893</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	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						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</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	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	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						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1/1/2025	1/31/2025	5	23	
2	Site Preparation	Site Preparation	1/1/2025	1/31/2025	5	23	
3	Grading	Grading	2/1/2025	3/31/2025	5	41	
4	Underground Infrastructure/Utilities	Trenching	2/1/2025	7/31/2025	5	129	
5	Building Construction	Building Construction	3/1/2025	10/31/2028	5	957	
6	Paving	Paving	4/1/2028	9/29/2028	5	130	
7	Architectural Coating	Architectural Coating	5/1/2028	10/31/2028	5	132	

**Acres of Grading (Site Preparation Phase): 21.56**

**Acres of Grading (Grading Phase): 41**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 313,980; Non-Residential Outdoor: 104,660; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37

**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	5	13.00	0.00	210.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	117.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	67.00	34.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9970	0.0000	1.9970	0.3024	0.0000	0.3024						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>1.9970</b>	<b>0.5452</b>	<b>2.5423</b>	<b>0.3024</b>	<b>0.5091</b>	<b>0.8115</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.2 Demolition - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0190	1.2152	0.3415	5.2400e-003	0.1597	0.0102	0.1699	0.0438	9.7400e-003	0.0535						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0342	0.0202	0.2598	8.3000e-004	0.1068	5.2000e-004	0.1073	0.0283	4.8000e-004	0.0288						
<b>Total</b>	<b>0.0532</b>	<b>1.2354</b>	<b>0.6013</b>	<b>6.0700e-003</b>	<b>0.2665</b>	<b>0.0107</b>	<b>0.2772</b>	<b>0.0721</b>	<b>0.0102</b>	<b>0.0823</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					0.8987	0.0000	0.8987	0.1361	0.0000	0.1361						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>0.8987</b>	<b>0.5452</b>	<b>1.4439</b>	<b>0.1361</b>	<b>0.5091</b>	<b>0.6451</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.2 Demolition - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0190	1.2152	0.3415	5.2400e-003	0.1597	0.0102	0.1699	0.0438	9.7400e-003	0.0535						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0342	0.0202	0.2598	8.3000e-004	0.1068	5.2000e-004	0.1073	0.0283	4.8000e-004	0.0288						
<b>Total</b>	<b>0.0532</b>	<b>1.2354</b>	<b>0.6013</b>	<b>6.0700e-003</b>	<b>0.2665</b>	<b>0.0107</b>	<b>0.2772</b>	<b>0.0721</b>	<b>0.0102</b>	<b>0.0823</b>						

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2636	0.0000	6.2636	3.0038	0.0000	3.0038						
Off-Road	1.0103	10.5940	6.4468	0.0172		0.4192	0.4192		0.3857	0.3857						
<b>Total</b>	<b>1.0103</b>	<b>10.5940</b>	<b>6.4468</b>	<b>0.0172</b>	<b>6.2636</b>	<b>0.4192</b>	<b>6.6829</b>	<b>3.0038</b>	<b>0.3857</b>	<b>3.3895</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.3 Site Preparation - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0232	6.5000e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2400e-003	8.3000e-004	1.9000e-004	1.0200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0214</b>	<b>0.0356</b>	<b>0.1664</b>	<b>6.1000e-004</b>	<b>0.0688</b>	<b>5.1000e-004</b>	<b>0.0693</b>	<b>0.0183</b>	<b>4.8000e-004</b>	<b>0.0188</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					2.8186	0.0000	2.8186	1.3517	0.0000	1.3517						
Off-Road	1.0103	10.5940	6.4468	0.0172		0.4192	0.4192		0.3857	0.3857						
<b>Total</b>	<b>1.0103</b>	<b>10.5940</b>	<b>6.4468</b>	<b>0.0172</b>	<b>2.8186</b>	<b>0.4192</b>	<b>3.2379</b>	<b>1.3517</b>	<b>0.3857</b>	<b>1.7374</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.3 Site Preparation - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0232	6.5000e-003	1.0000e-004	3.0400e-003	1.9000e-004	3.2400e-003	8.3000e-004	1.9000e-004	1.0200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0214</b>	<b>0.0356</b>	<b>0.1664</b>	<b>6.1000e-004</b>	<b>0.0688</b>	<b>5.1000e-004</b>	<b>0.0693</b>	<b>0.0183</b>	<b>4.8000e-004</b>	<b>0.0188</b>						

**3.4 Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0858	0.0000	7.0858	3.4252	0.0000	3.4252						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0858</b>	<b>0.4961</b>	<b>7.5819</b>	<b>3.4252</b>	<b>0.4564</b>	<b>3.8816</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.4 Grading - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9300e-003	0.3798	0.1067	1.6400e-003	0.0499	3.1800e-003	0.0531	0.0137	3.0400e-003	0.0167						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0263	0.0155	0.1999	6.4000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222						
<b>Total</b>	<b>0.0323</b>	<b>0.3954</b>	<b>0.3066</b>	<b>2.2800e-003</b>	<b>0.1321</b>	<b>3.5800e-003</b>	<b>0.1356</b>	<b>0.0355</b>	<b>3.4100e-003</b>	<b>0.0389</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					3.1886	0.0000	3.1886	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1886</b>	<b>0.4961</b>	<b>3.6847</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9977</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.4 Grading - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9300e-003	0.3798	0.1067	1.6400e-003	0.0499	3.1800e-003	0.0531	0.0137	3.0400e-003	0.0167						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0263	0.0155	0.1999	6.4000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222						
<b>Total</b>	<b>0.0323</b>	<b>0.3954</b>	<b>0.3066</b>	<b>2.2800e-003</b>	<b>0.1321</b>	<b>3.5800e-003</b>	<b>0.1356</b>	<b>0.0355</b>	<b>3.4100e-003</b>	<b>0.0389</b>						

**3.5 Underground Infrastructure/Utilities - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	4.0053	6.6890	9.3600e-003		0.1623	0.1623		0.1493	0.1493						
<b>Total</b>	<b>0.3964</b>	<b>4.0053</b>	<b>6.6890</b>	<b>9.3600e-003</b>		<b>0.1623</b>	<b>0.1623</b>		<b>0.1493</b>	<b>0.1493</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0211</b>	<b>0.0124</b>	<b>0.1599</b>	<b>5.1000e-004</b>	<b>0.0657</b>	<b>3.2000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.9000e-004</b>	<b>0.0177</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	0.3964	4.0053	6.6890	9.3600e-003		0.1623	0.1623		0.1493	0.1493						
<b>Total</b>	<b>0.3964</b>	<b>4.0053</b>	<b>6.6890</b>	<b>9.3600e-003</b>		<b>0.1623</b>	<b>0.1623</b>		<b>0.1493</b>	<b>0.1493</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0124	0.1599	5.1000e-004	0.0657	3.2000e-004	0.0660	0.0174	2.9000e-004	0.0177						
<b>Total</b>	<b>0.0211</b>	<b>0.0124</b>	<b>0.1599</b>	<b>5.1000e-004</b>	<b>0.0657</b>	<b>3.2000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.9000e-004</b>	<b>0.0177</b>						

**3.6 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0367	1.4940	0.5200	6.7000e-003	0.2303	8.9300e-003	0.2392	0.0663	8.5500e-003	0.0748						
Worker	0.1764	0.1041	1.3391	4.2900e-003	0.5504	2.6800e-003	0.5531	0.1460	2.4700e-003	0.1485						
<b>Total</b>	<b>0.2130</b>	<b>1.5980</b>	<b>1.8591</b>	<b>0.0110</b>	<b>0.7807</b>	<b>0.0116</b>	<b>0.7923</b>	<b>0.2123</b>	<b>0.0110</b>	<b>0.2233</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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						
Vendor	0.0367	1.4940	0.5200	6.7000e-003	0.2303	8.9300e-003	0.2392	0.0663	8.5500e-003	0.0748						
Worker	0.1764	0.1041	1.3391	4.2900e-003	0.5504	2.6800e-003	0.5531	0.1460	2.4700e-003	0.1485						
<b>Total</b>	<b>0.2130</b>	<b>1.5980</b>	<b>1.8591</b>	<b>0.0110</b>	<b>0.7807</b>	<b>0.0116</b>	<b>0.7923</b>	<b>0.2123</b>	<b>0.0110</b>	<b>0.2233</b>						

**3.6 Building Construction - 2026**

**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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2026**

**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						
Vendor	0.0356	1.4781	0.5137	6.5600e-003	0.2303	8.8600e-003	0.2391	0.0663	8.4700e-003	0.0748						
Worker	0.1670	0.0950	1.2629	4.1600e-003	0.5504	2.5500e-003	0.5529	0.1460	2.3500e-003	0.1483						
<b>Total</b>	<b>0.2026</b>	<b>1.5731</b>	<b>1.7765</b>	<b>0.0107</b>	<b>0.7807</b>	<b>0.0114</b>	<b>0.7921</b>	<b>0.2123</b>	<b>0.0108</b>	<b>0.2231</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2026**

**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						
Vendor	0.0356	1.4781	0.5137	6.5600e-003	0.2303	8.8600e-003	0.2391	0.0663	8.4700e-003	0.0748						
Worker	0.1670	0.0950	1.2629	4.1600e-003	0.5504	2.5500e-003	0.5529	0.1460	2.3500e-003	0.1483						
<b>Total</b>	<b>0.2026</b>	<b>1.5731</b>	<b>1.7765</b>	<b>0.0107</b>	<b>0.7807</b>	<b>0.0114</b>	<b>0.7921</b>	<b>0.2123</b>	<b>0.0108</b>	<b>0.2231</b>						

**3.6 Building Construction - 2027**

**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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2027**

**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						
Vendor	0.0347	1.4626	0.5086	6.4200e-003	0.2303	8.7800e-003	0.2391	0.0663	8.4000e-003	0.0747						
Worker	0.1582	0.0872	1.1969	4.0400e-003	0.5504	2.4000e-003	0.5528	0.1460	2.2100e-003	0.1482						
<b>Total</b>	<b>0.1929</b>	<b>1.5497</b>	<b>1.7055</b>	<b>0.0105</b>	<b>0.7807</b>	<b>0.0112</b>	<b>0.7919</b>	<b>0.2123</b>	<b>0.0106</b>	<b>0.2229</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2027**

**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						
Vendor	0.0347	1.4626	0.5086	6.4200e-003	0.2303	8.7800e-003	0.2391	0.0663	8.4000e-003	0.0747						
Worker	0.1582	0.0872	1.1969	4.0400e-003	0.5504	2.4000e-003	0.5528	0.1460	2.2100e-003	0.1482						
<b>Total</b>	<b>0.1929</b>	<b>1.5497</b>	<b>1.7055</b>	<b>0.0105</b>	<b>0.7807</b>	<b>0.0112</b>	<b>0.7919</b>	<b>0.2123</b>	<b>0.0106</b>	<b>0.2229</b>						

**3.6 Building Construction - 2028**

**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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0340	1.4498	0.5054	6.2800e-003	0.2303	8.7100e-003	0.2390	0.0663	8.3300e-003	0.0746						
Worker	0.1498	0.0805	1.1412	3.9300e-003	0.5504	2.2400e-003	0.5526	0.1460	2.0600e-003	0.1481						
<b>Total</b>	<b>0.1838</b>	<b>1.5304</b>	<b>1.6466</b>	<b>0.0102</b>	<b>0.7807</b>	<b>0.0110</b>	<b>0.7916</b>	<b>0.2123</b>	<b>0.0104</b>	<b>0.2227</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	1.3246	10.4128	12.4393	0.0221		0.3925	0.3925		0.3785	0.3785						
<b>Total</b>	<b>1.3246</b>	<b>10.4128</b>	<b>12.4393</b>	<b>0.0221</b>		<b>0.3925</b>	<b>0.3925</b>		<b>0.3785</b>	<b>0.3785</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0340	1.4498	0.5054	6.2800e-003	0.2303	8.7100e-003	0.2390	0.0663	8.3300e-003	0.0746						
Worker	0.1498	0.0805	1.1412	3.9300e-003	0.5504	2.2400e-003	0.5526	0.1460	2.0600e-003	0.1481						
<b>Total</b>	<b>0.1838</b>	<b>1.5304</b>	<b>1.6466</b>	<b>0.0102</b>	<b>0.7807</b>	<b>0.0110</b>	<b>0.7916</b>	<b>0.2123</b>	<b>0.0104</b>	<b>0.2227</b>						

**3.7 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5732	5.3259	8.7951	0.0136		0.2465	0.2465		0.2276	0.2276						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.5732</b>	<b>5.3259</b>	<b>8.7951</b>	<b>0.0136</b>		<b>0.2465</b>	<b>0.2465</b>		<b>0.2276</b>	<b>0.2276</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.7 Paving - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0291</b>	<b>0.0156</b>	<b>0.2214</b>	<b>7.6000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</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	0.5732	5.3259	8.7951	0.0136		0.2465	0.2465		0.2276	0.2276						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.5732</b>	<b>5.3259</b>	<b>8.7951</b>	<b>0.0136</b>		<b>0.2465</b>	<b>0.2465</b>		<b>0.2276</b>	<b>0.2276</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.7 Paving - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0291</b>	<b>0.0156</b>	<b>0.2214</b>	<b>7.6000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</b>						

**3.8 Architectural Coating - 2028**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0291</b>	<b>0.0156</b>	<b>0.2214</b>	<b>7.6000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0291</b>	<b>0.0156</b>	<b>0.2214</b>	<b>7.6000e-004</b>	<b>0.1068</b>	<b>4.3000e-004</b>	<b>0.1072</b>	<b>0.0283</b>	<b>4.0000e-004</b>	<b>0.0287</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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							

**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					
Hospital	0	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>						



Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Unmitigated	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.9500e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>1.9500e-003</b>	<b>1.9000e-004</b>	<b>0.0213</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Hospital Tower Construction/Rady Bridge Replacement - San Diego County, Winter

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**Concourse Entry Construction/Knollwood Building Replacement**

**San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	124.00	1000sqft	2.41	124,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Concourse Entry: 2-level building; 4,000 SF

Knollwood Building: 120,000 SF

Site area; 2.413 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

## Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	129.00
tblConstructionPhase	NumDays	220.00	325.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	129.00
tblConstructionPhase	NumDays	3.00	22.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	1,385.00
tblGrading	MaterialExported	0.00	87.50
tblLandUse	LotAcreage	2.85	2.41
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00
tblVehicleTrips	WD_TR	10.72	0.00

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**2.0 Emissions Summary**

---

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2028	4.4909	43.6239	42.6387	0.0957	12.1589	1.6508	13.8097	4.3231	1.5447	5.8677						
2029	3.0789	28.4545	28.8491	0.0609	7.7431	1.0852	8.8282	3.6031	1.0162	4.6193						
2030	2.5845	15.6166	29.2834	0.0595	0.6530	0.4019	1.0549	0.1763	0.4015	0.5778						
<b>Maximum</b>	<b>4.4909</b>	<b>43.6239</b>	<b>42.6387</b>	<b>0.0957</b>	<b>12.1589</b>	<b>1.6508</b>	<b>13.8097</b>	<b>4.3231</b>	<b>1.5447</b>	<b>5.8677</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					
2028	4.4909	43.6239	42.6387	0.0957	6.0663	1.6508	7.7170	2.1067	1.5447	3.6514						
2029	3.0789	28.4545	28.8491	0.0609	3.8452	1.0852	4.9304	1.7191	1.0162	2.7353						
2030	2.5845	15.6166	29.2834	0.0595	0.6530	0.4019	1.0549	0.1763	0.4015	0.5778						
<b>Maximum</b>	<b>4.4909</b>	<b>43.6239</b>	<b>42.6387</b>	<b>0.0957</b>	<b>6.0663</b>	<b>1.6508</b>	<b>7.7170</b>	<b>2.1067</b>	<b>1.5447</b>	<b>3.6514</b>						



## Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	48.60	0.00	42.17	50.61	0.00	37.06	0.00	0.00	0.00	0.00	0.00	0.00

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Energy	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						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</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	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Energy	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						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	11/1/2028	12/29/2028	5	43	
2	Site Preparation	Site Preparation	11/1/2028	11/30/2028	5	22	
3	Grading	Grading	12/1/2028	1/31/2029	5	44	
4	Underground Infrastructure/Utilities	Trenching	12/1/2028	5/31/2029	5	130	
5	Building Construction	Building Construction	12/1/2028	2/28/2030	5	325	
6	Paving	Paving	9/1/2029	2/28/2030	5	129	
7	Architectural Coating	Architectural Coating	9/1/2029	2/28/2030	5	129	

**Acres of Grading (Site Preparation Phase): 33**

**Acres of Grading (Grading Phase): 44**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,000; Non-Residential Outdoor: 62,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	783.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	173.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9906	0.0000	3.9906	0.6043	0.0000	0.6043						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>3.9906</b>	<b>0.5452</b>	<b>4.5358</b>	<b>0.6043</b>	<b>0.5091</b>	<b>1.1134</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.2 Demolition - 2028**

**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	0.0390	2.2286	0.6972	9.6800e-003	0.3185	0.0197	0.3382	0.0873	0.0188	0.1062						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0655</b>	<b>2.2425</b>	<b>0.9287</b>	<b>0.0105</b>	<b>0.4253</b>	<b>0.0201</b>	<b>0.4454</b>	<b>0.1156</b>	<b>0.0192</b>	<b>0.1349</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					1.7958	0.0000	1.7958	0.2719	0.0000	0.2719						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>1.7958</b>	<b>0.5452</b>	<b>2.3410</b>	<b>0.2719</b>	<b>0.5091</b>	<b>0.7810</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.2 Demolition - 2028**

**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	0.0390	2.2286	0.6972	9.6800e-003	0.3185	0.0197	0.3382	0.0873	0.0188	0.1062						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0265	0.0139	0.2315	8.1000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0655</b>	<b>2.2425</b>	<b>0.9287</b>	<b>0.0105</b>	<b>0.4253</b>	<b>0.0201</b>	<b>0.4454</b>	<b>0.1156</b>	<b>0.0192</b>	<b>0.1349</b>						

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5913	0.0000	1.5913	0.1719	0.0000	0.1719						
Off-Road	1.0985	10.9957	8.9257	0.0245		0.4094	0.4094		0.3766	0.3766						
<b>Total</b>	<b>1.0985</b>	<b>10.9957</b>	<b>8.9257</b>	<b>0.0245</b>	<b>1.5913</b>	<b>0.4094</b>	<b>2.0007</b>	<b>0.1719</b>	<b>0.3766</b>	<b>0.5485</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.3 Site Preparation - 2028**

**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	1.0700e-003	0.0612	0.0191	2.7000e-004	8.7500e-003	5.4000e-004	9.2900e-003	2.4000e-003	5.2000e-004	2.9100e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0163	8.5500e-003	0.1425	5.0000e-004	0.0657	2.7000e-004	0.0660	0.0174	2.5000e-004	0.0177						
<b>Total</b>	<b>0.0174</b>	<b>0.0697</b>	<b>0.1616</b>	<b>7.7000e-004</b>	<b>0.0745</b>	<b>8.1000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.7000e-004</b>	<b>0.0206</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					0.7161	0.0000	0.7161	0.0773	0.0000	0.0773						
Off-Road	1.0985	10.9957	8.9257	0.0245		0.4094	0.4094		0.3766	0.3766						
<b>Total</b>	<b>1.0985</b>	<b>10.9957</b>	<b>8.9257</b>	<b>0.0245</b>	<b>0.7161</b>	<b>0.4094</b>	<b>1.1254</b>	<b>0.0773</b>	<b>0.3766</b>	<b>0.4539</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.3 Site Preparation - 2028**

**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	1.0700e-003	0.0612	0.0191	2.7000e-004	8.7500e-003	5.4000e-004	9.2900e-003	2.4000e-003	5.2000e-004	2.9100e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0163	8.5500e-003	0.1425	5.0000e-004	0.0657	2.7000e-004	0.0660	0.0174	2.5000e-004	0.0177						
<b>Total</b>	<b>0.0174</b>	<b>0.0697</b>	<b>0.1616</b>	<b>7.7000e-004</b>	<b>0.0745</b>	<b>8.1000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.7000e-004</b>	<b>0.0206</b>						

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0870	0.0000	7.0870	3.4254	0.0000	3.4254						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0870</b>	<b>0.4961</b>	<b>7.5831</b>	<b>3.4254</b>	<b>0.4564</b>	<b>3.8818</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.4 Grading - 2028**

**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	8.4200e-003	0.4812	0.1505	2.0900e-003	0.0688	4.2500e-003	0.0730	0.0189	4.0700e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0204	0.0107	0.1781	6.2000e-004	0.0822	3.3000e-004	0.0825	0.0218	3.1000e-004	0.0221						
<b>Total</b>	<b>0.0288</b>	<b>0.4919</b>	<b>0.3286</b>	<b>2.7100e-003</b>	<b>0.1509</b>	<b>4.5800e-003</b>	<b>0.1555</b>	<b>0.0406</b>	<b>4.3800e-003</b>	<b>0.0450</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					3.1892	0.0000	3.1892	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1892</b>	<b>0.4961</b>	<b>3.6852</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9978</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.4 Grading - 2028**

**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	8.4200e-003	0.4812	0.1505	2.0900e-003	0.0688	4.2500e-003	0.0730	0.0189	4.0700e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0204	0.0107	0.1781	6.2000e-004	0.0822	3.3000e-004	0.0825	0.0218	3.1000e-004	0.0221						
<b>Total</b>	<b>0.0288</b>	<b>0.4919</b>	<b>0.3286</b>	<b>2.7100e-003</b>	<b>0.1509</b>	<b>4.5800e-003</b>	<b>0.1555</b>	<b>0.0406</b>	<b>4.3800e-003</b>	<b>0.0450</b>						

**3.4 Grading - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0870	0.0000	7.0870	3.4254	0.0000	3.4254						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0870</b>	<b>0.4961</b>	<b>7.5831</b>	<b>3.4254</b>	<b>0.4564</b>	<b>3.8818</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.4 Grading - 2029**

**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	8.3400e-003	0.4731	0.1519	2.0300e-003	0.0688	4.2000e-003	0.0730	0.0189	4.0200e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0192	9.9200e-003	0.1702	6.1000e-004	0.0822	3.1000e-004	0.0825	0.0218	2.9000e-004	0.0221						
<b>Total</b>	<b>0.0276</b>	<b>0.4831</b>	<b>0.3221</b>	<b>2.6400e-003</b>	<b>0.1509</b>	<b>4.5100e-003</b>	<b>0.1554</b>	<b>0.0406</b>	<b>4.3100e-003</b>	<b>0.0450</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					3.1892	0.0000	3.1892	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1892</b>	<b>0.4961</b>	<b>3.6852</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9978</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.4 Grading - 2029**

**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	8.3400e-003	0.4731	0.1519	2.0300e-003	0.0688	4.2000e-003	0.0730	0.0189	4.0200e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0192	9.9200e-003	0.1702	6.1000e-004	0.0822	3.1000e-004	0.0825	0.0218	2.9000e-004	0.0221						
<b>Total</b>	<b>0.0276</b>	<b>0.4831</b>	<b>0.3221</b>	<b>2.6400e-003</b>	<b>0.1509</b>	<b>4.5100e-003</b>	<b>0.1554</b>	<b>0.0406</b>	<b>4.3100e-003</b>	<b>0.0450</b>						

**3.5 Underground Infrastructure/Utilities - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0102	5.3500e-003	0.0890	3.1000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.5000e-004	0.0111						
<b>Total</b>	<b>0.0102</b>	<b>5.3500e-003</b>	<b>0.0890</b>	<b>3.1000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>0.0111</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	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0102	5.3500e-003	0.0890	3.1000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.5000e-004	0.0111						
<b>Total</b>	<b>0.0102</b>	<b>5.3500e-003</b>	<b>0.0890</b>	<b>3.1000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>0.0111</b>						

**3.5 Underground Infrastructure/Utilities - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	9.6200e-003	4.9600e-003	0.0851	3.0000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.4000e-004	0.0110						
<b>Total</b>	<b>9.6200e-003</b>	<b>4.9600e-003</b>	<b>0.0851</b>	<b>3.0000e-004</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.4000e-004</b>	<b>0.0110</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	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.5 Underground Infrastructure/Utilities - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	9.6200e-003	4.9600e-003	0.0851	3.0000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.4000e-004	0.0110						
<b>Total</b>	<b>9.6200e-003</b>	<b>4.9600e-003</b>	<b>0.0851</b>	<b>3.0000e-004</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.4000e-004</b>	<b>0.0110</b>						

**3.6 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0208	0.8179	0.2883	3.6900e-003	0.1355	5.1100e-003	0.1406	0.0390	4.8800e-003	0.0439						
Worker	0.0816	0.0428	0.7123	2.4800e-003	0.3286	1.3400e-003	0.3299	0.0872	1.2300e-003	0.0884						
<b>Total</b>	<b>0.1024</b>	<b>0.8607</b>	<b>1.0006</b>	<b>6.1700e-003</b>	<b>0.4641</b>	<b>6.4500e-003</b>	<b>0.4705</b>	<b>0.1262</b>	<b>6.1100e-003</b>	<b>0.1323</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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0208	0.8179	0.2883	3.6900e-003	0.1355	5.1100e-003	0.1406	0.0390	4.8800e-003	0.0439						
Worker	0.0816	0.0428	0.7123	2.4800e-003	0.3286	1.3400e-003	0.3299	0.0872	1.2300e-003	0.0884						
<b>Total</b>	<b>0.1024</b>	<b>0.8607</b>	<b>1.0006</b>	<b>6.1700e-003</b>	<b>0.4641</b>	<b>6.4500e-003</b>	<b>0.4705</b>	<b>0.1262</b>	<b>6.1100e-003</b>	<b>0.1323</b>						

**3.6 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2029**

**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						
Vendor	0.0204	0.8091	0.2867	3.6100e-003	0.1355	5.0500e-003	0.1405	0.0390	4.8300e-003	0.0438						
Worker	0.0769	0.0397	0.6809	2.4200e-003	0.3286	1.2500e-003	0.3298	0.0872	1.1500e-003	0.0883						
<b>Total</b>	<b>0.0974</b>	<b>0.8488</b>	<b>0.9675</b>	<b>6.0300e-003</b>	<b>0.4641</b>	<b>6.3000e-003</b>	<b>0.4704</b>	<b>0.1262</b>	<b>5.9800e-003</b>	<b>0.1321</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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2029**

**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						
Vendor	0.0204	0.8091	0.2867	3.6100e-003	0.1355	5.0500e-003	0.1405	0.0390	4.8300e-003	0.0438						
Worker	0.0769	0.0397	0.6809	2.4200e-003	0.3286	1.2500e-003	0.3298	0.0872	1.1500e-003	0.0883						
<b>Total</b>	<b>0.0974</b>	<b>0.8488</b>	<b>0.9675</b>	<b>6.0300e-003</b>	<b>0.4641</b>	<b>6.3000e-003</b>	<b>0.4704</b>	<b>0.1262</b>	<b>5.9800e-003</b>	<b>0.1321</b>						

**3.6 Building Construction - 2030**

**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	1.2362	7.8973	13.6415	0.0275		0.1407	0.1407		0.1407	0.1407						
<b>Total</b>	<b>1.2362</b>	<b>7.8973</b>	<b>13.6415</b>	<b>0.0275</b>		<b>0.1407</b>	<b>0.1407</b>		<b>0.1407</b>	<b>0.1407</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2030**

**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						
Vendor	0.0201	0.8031	0.2857	3.5400e-003	0.1355	5.0200e-003	0.1405	0.0390	4.8000e-003	0.0438						
Worker	0.0724	0.0370	0.6533	2.3700e-003	0.3286	1.1600e-003	0.3298	0.0872	1.0700e-003	0.0882						
<b>Total</b>	<b>0.0925</b>	<b>0.8401</b>	<b>0.9391</b>	<b>5.9100e-003</b>	<b>0.4641</b>	<b>6.1800e-003</b>	<b>0.4702</b>	<b>0.1262</b>	<b>5.8700e-003</b>	<b>0.1320</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	1.2362	7.8973	13.6415	0.0275		0.1407	0.1407		0.1407	0.1407						
<b>Total</b>	<b>1.2362</b>	<b>7.8973</b>	<b>13.6415</b>	<b>0.0275</b>		<b>0.1407</b>	<b>0.1407</b>		<b>0.1407</b>	<b>0.1407</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.6 Building Construction - 2030**

**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						
Vendor	0.0201	0.8031	0.2857	3.5400e-003	0.1355	5.0200e-003	0.1405	0.0390	4.8000e-003	0.0438						
Worker	0.0724	0.0370	0.6533	2.3700e-003	0.3286	1.1600e-003	0.3298	0.0872	1.0700e-003	0.0882						
<b>Total</b>	<b>0.0925</b>	<b>0.8401</b>	<b>0.9391</b>	<b>5.9100e-003</b>	<b>0.4641</b>	<b>6.1800e-003</b>	<b>0.4702</b>	<b>0.1262</b>	<b>5.8700e-003</b>	<b>0.1320</b>						

**3.7 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.7 Paving - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0289	0.0149	0.2553	9.1000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331						
<b>Total</b>	<b>0.0289</b>	<b>0.0149</b>	<b>0.2553</b>	<b>9.1000e-004</b>	<b>0.1232</b>	<b>4.7000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.3000e-004</b>	<b>0.0331</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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.7 Paving - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0289	0.0149	0.2553	9.1000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331						
<b>Total</b>	<b>0.0289</b>	<b>0.0149</b>	<b>0.2553</b>	<b>9.1000e-004</b>	<b>0.1232</b>	<b>4.7000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.3000e-004</b>	<b>0.0331</b>						

**3.7 Paving - 2030**

**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	1.0835	6.0018	12.5295	0.0218		0.2340	0.2340		0.2340	0.2340						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0835</b>	<b>6.0018</b>	<b>12.5295</b>	<b>0.0218</b>		<b>0.2340</b>	<b>0.2340</b>		<b>0.2340</b>	<b>0.2340</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.7 Paving - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0271	0.0139	0.2450	8.9000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331						
<b>Total</b>	<b>0.0271</b>	<b>0.0139</b>	<b>0.2450</b>	<b>8.9000e-004</b>	<b>0.1232</b>	<b>4.4000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.0000e-004</b>	<b>0.0331</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	1.0835	6.0018	12.5295	0.0218		0.2340	0.2340		0.2340	0.2340						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0835</b>	<b>6.0018</b>	<b>12.5295</b>	<b>0.0218</b>		<b>0.2340</b>	<b>0.2340</b>		<b>0.2340</b>	<b>0.2340</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.7 Paving - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0271	0.0139	0.2450	8.9000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331						
<b>Total</b>	<b>0.0271</b>	<b>0.0139</b>	<b>0.2450</b>	<b>8.9000e-004</b>	<b>0.1232</b>	<b>4.4000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.0000e-004</b>	<b>0.0331</b>						

**3.8 Architectural Coating - 2029**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0154	7.9400e-003	0.1362	4.8000e-004	0.0657	2.5000e-004	0.0660	0.0174	2.3000e-004	0.0177						
<b>Total</b>	<b>0.0154</b>	<b>7.9400e-003</b>	<b>0.1362</b>	<b>4.8000e-004</b>	<b>0.0657</b>	<b>2.5000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.3000e-004</b>	<b>0.0177</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0154	7.9400e-003	0.1362	4.8000e-004	0.0657	2.5000e-004	0.0660	0.0174	2.3000e-004	0.0177						
<b>Total</b>	<b>0.0154</b>	<b>7.9400e-003</b>	<b>0.1362</b>	<b>4.8000e-004</b>	<b>0.0657</b>	<b>2.5000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.3000e-004</b>	<b>0.0177</b>						

**3.8 Architectural Coating - 2030**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203						
<b>Total</b>	<b>0.1308</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0145	7.3900e-003	0.1307	4.7000e-004	0.0657	2.3000e-004	0.0660	0.0174	2.1000e-004	0.0177						
<b>Total</b>	<b>0.0145</b>	<b>7.3900e-003</b>	<b>0.1307</b>	<b>4.7000e-004</b>	<b>0.0657</b>	<b>2.3000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.1000e-004</b>	<b>0.0177</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203						
<b>Total</b>	<b>0.1308</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**3.8 Architectural Coating - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0145	7.3900e-003	0.1307	4.7000e-004	0.0657	2.3000e-004	0.0660	0.0174	2.1000e-004	0.0177						
<b>Total</b>	<b>0.0145</b>	<b>7.3900e-003</b>	<b>0.1307</b>	<b>4.7000e-004</b>	<b>0.0657</b>	<b>2.3000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.1000e-004</b>	<b>0.0177</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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							

**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					
Hospital	0	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>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Unmitigated	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Summer

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**Concourse Entry Construction/Knollwood Building Replacement**

**San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	124.00	1000sqft	2.41	124,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use - Concourse Entry: 2-level building; 4,000 SF

Knollwood Building: 120,000 SF

Site area; 2.413 acres

Construction Phase - Construction schedule provided by PDC.

Off-road Equipment - Equipment per PDC

Demolition -

Grading -

Architectural Coating - Project will use zero-VOC content paint.

Vehicle Trips - Modeling for construction only.

Consumer Products - Modeling for construction only.

Area Coating - Modeling for construction only.

Energy Use - Modeling for construction only.

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	129.00
tblConstructionPhase	NumDays	220.00	325.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	129.00
tblConstructionPhase	NumDays	3.00	22.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	0.00
tblEnergyUse	T24E	5.69	0.00
tblEnergyUse	T24NG	50.54	0.00
tblGrading	MaterialExported	0.00	1,385.00
tblGrading	MaterialExported	0.00	87.50
tblLandUse	LotAcreage	2.85	2.41
tblVehicleTrips	ST_TR	7.72	0.00
tblVehicleTrips	SU_TR	6.77	0.00
tblVehicleTrips	WD_TR	10.72	0.00

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**2.0 Emissions Summary**

---



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2028	4.5004	43.7786	42.6046	0.0955	12.1589	1.6508	13.8098	4.3231	1.5447	5.8678						
2029	3.0879	28.5154	28.8120	0.0607	7.7431	1.0852	8.8283	3.6031	1.0162	4.6193						
2030	2.5951	15.6584	29.2488	0.0593	0.6530	0.4019	1.0549	0.1763	0.4015	0.5778						
<b>Maximum</b>	<b>4.5004</b>	<b>43.7786</b>	<b>42.6046</b>	<b>0.0955</b>	<b>12.1589</b>	<b>1.6508</b>	<b>13.8098</b>	<b>4.3231</b>	<b>1.5447</b>	<b>5.8678</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					
2028	4.5004	43.7786	42.6046	0.0955	6.0663	1.6508	7.7171	2.1067	1.5447	3.6514						
2029	3.0879	28.5154	28.8120	0.0607	3.8452	1.0852	4.9304	1.7191	1.0162	2.7353						
2030	2.5951	15.6584	29.2488	0.0593	0.6530	0.4019	1.0549	0.1763	0.4015	0.5778						
<b>Maximum</b>	<b>4.5004</b>	<b>43.7786</b>	<b>42.6046</b>	<b>0.0955</b>	<b>6.0663</b>	<b>1.6508</b>	<b>7.7171</b>	<b>2.1067</b>	<b>1.5447</b>	<b>3.6514</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Energy	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						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</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	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Energy	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						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	11/1/2028	12/29/2028	5	43	
2	Site Preparation	Site Preparation	11/1/2028	11/30/2028	5	22	
3	Grading	Grading	12/1/2028	1/31/2029	5	44	
4	Underground Infrastructure/Utilities	Trenching	12/1/2028	5/31/2029	5	130	
5	Building Construction	Building Construction	12/1/2028	2/28/2030	5	325	
6	Paving	Paving	9/1/2029	2/28/2030	5	129	
7	Architectural Coating	Architectural Coating	9/1/2029	2/28/2030	5	129	

**Acres of Grading (Site Preparation Phase): 33**

**Acres of Grading (Grading Phase): 44**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,000; Non-Residential Outdoor: 62,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	783.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	173.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infrastructure/Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9906	0.0000	3.9906	0.6043	0.0000	0.6043						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>3.9906</b>	<b>0.5452</b>	<b>4.5358</b>	<b>0.6043</b>	<b>0.5091</b>	<b>1.1134</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.2 Demolition - 2028**

**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	0.0366	2.3196	0.7051	9.6900e-003	0.3185	0.0197	0.3382	0.0873	0.0189	0.1062						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0656</b>	<b>2.3353</b>	<b>0.9265</b>	<b>0.0105</b>	<b>0.4253</b>	<b>0.0202</b>	<b>0.4455</b>	<b>0.1156</b>	<b>0.0193</b>	<b>0.1349</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					1.7958	0.0000	1.7958	0.2719	0.0000	0.2719						
Off-Road	1.3396	12.9057	13.3316	0.0242		0.5452	0.5452		0.5091	0.5091						
<b>Total</b>	<b>1.3396</b>	<b>12.9057</b>	<b>13.3316</b>	<b>0.0242</b>	<b>1.7958</b>	<b>0.5452</b>	<b>2.3410</b>	<b>0.2719</b>	<b>0.5091</b>	<b>0.7810</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.2 Demolition - 2028**

**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	0.0366	2.3196	0.7051	9.6900e-003	0.3185	0.0197	0.3382	0.0873	0.0189	0.1062						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0291	0.0156	0.2214	7.6000e-004	0.1068	4.3000e-004	0.1072	0.0283	4.0000e-004	0.0287						
<b>Total</b>	<b>0.0656</b>	<b>2.3353</b>	<b>0.9265</b>	<b>0.0105</b>	<b>0.4253</b>	<b>0.0202</b>	<b>0.4455</b>	<b>0.1156</b>	<b>0.0193</b>	<b>0.1349</b>						

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5913	0.0000	1.5913	0.1719	0.0000	0.1719						
Off-Road	1.0985	10.9957	8.9257	0.0245		0.4094	0.4094		0.3766	0.3766						
<b>Total</b>	<b>1.0985</b>	<b>10.9957</b>	<b>8.9257</b>	<b>0.0245</b>	<b>1.5913</b>	<b>0.4094</b>	<b>2.0007</b>	<b>0.1719</b>	<b>0.3766</b>	<b>0.5485</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.3 Site Preparation - 2028**

**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	1.0000e-003	0.0637	0.0194	2.7000e-004	8.7500e-003	5.4000e-004	9.2900e-003	2.4000e-003	5.2000e-004	2.9200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0179	9.6200e-003	0.1363	4.7000e-004	0.0657	2.7000e-004	0.0660	0.0174	2.5000e-004	0.0177						
<b>Total</b>	<b>0.0189</b>	<b>0.0733</b>	<b>0.1556</b>	<b>7.4000e-004</b>	<b>0.0745</b>	<b>8.1000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.7000e-004</b>	<b>0.0206</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					0.7161	0.0000	0.7161	0.0773	0.0000	0.0773						
Off-Road	1.0985	10.9957	8.9257	0.0245		0.4094	0.4094		0.3766	0.3766						
<b>Total</b>	<b>1.0985</b>	<b>10.9957</b>	<b>8.9257</b>	<b>0.0245</b>	<b>0.7161</b>	<b>0.4094</b>	<b>1.1254</b>	<b>0.0773</b>	<b>0.3766</b>	<b>0.4539</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.3 Site Preparation - 2028**

**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	1.0000e-003	0.0637	0.0194	2.7000e-004	8.7500e-003	5.4000e-004	9.2900e-003	2.4000e-003	5.2000e-004	2.9200e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0179	9.6200e-003	0.1363	4.7000e-004	0.0657	2.7000e-004	0.0660	0.0174	2.5000e-004	0.0177						
<b>Total</b>	<b>0.0189</b>	<b>0.0733</b>	<b>0.1556</b>	<b>7.4000e-004</b>	<b>0.0745</b>	<b>8.1000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.7000e-004</b>	<b>0.0206</b>						

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0870	0.0000	7.0870	3.4254	0.0000	3.4254						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0870</b>	<b>0.4961</b>	<b>7.5831</b>	<b>3.4254</b>	<b>0.4564</b>	<b>3.8818</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.4 Grading - 2028**

**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	7.8900e-003	0.5009	0.1522	2.0900e-003	0.0688	4.2600e-003	0.0730	0.0189	4.0700e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0224	0.0120	0.1703	5.9000e-004	0.0822	3.3000e-004	0.0825	0.0218	3.1000e-004	0.0221						
<b>Total</b>	<b>0.0303</b>	<b>0.5129</b>	<b>0.3226</b>	<b>2.6800e-003</b>	<b>0.1509</b>	<b>4.5900e-003</b>	<b>0.1555</b>	<b>0.0406</b>	<b>4.3800e-003</b>	<b>0.0450</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					3.1892	0.0000	3.1892	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1892</b>	<b>0.4961</b>	<b>3.6852</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9978</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.4 Grading - 2028**

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	7.8900e-003	0.5009	0.1522	2.0900e-003	0.0688	4.2600e-003	0.0730	0.0189	4.0700e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0224	0.0120	0.1703	5.9000e-004	0.0822	3.3000e-004	0.0825	0.0218	3.1000e-004	0.0221						
<b>Total</b>	<b>0.0303</b>	<b>0.5129</b>	<b>0.3226</b>	<b>2.6800e-003</b>	<b>0.1509</b>	<b>4.5900e-003</b>	<b>0.1555</b>	<b>0.0406</b>	<b>4.3800e-003</b>	<b>0.0450</b>						

**3.4 Grading - 2029**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0870	0.0000	7.0870	3.4254	0.0000	3.4254						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>7.0870</b>	<b>0.4961</b>	<b>7.5831</b>	<b>3.4254</b>	<b>0.4564</b>	<b>3.8818</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.4 Grading - 2029**

**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	7.8000e-003	0.4925	0.1536	2.0400e-003	0.0688	4.2000e-003	0.0730	0.0189	4.0200e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0112	0.1629	5.7000e-004	0.0822	3.1000e-004	0.0825	0.0218	2.9000e-004	0.0221						
<b>Total</b>	<b>0.0289</b>	<b>0.5037</b>	<b>0.3165</b>	<b>2.6100e-003</b>	<b>0.1509</b>	<b>4.5100e-003</b>	<b>0.1554</b>	<b>0.0406</b>	<b>4.3100e-003</b>	<b>0.0450</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					3.1892	0.0000	3.1892	1.5414	0.0000	1.5414						
Off-Road	1.1904	12.4243	8.4937	0.0206		0.4961	0.4961		0.4564	0.4564						
<b>Total</b>	<b>1.1904</b>	<b>12.4243</b>	<b>8.4937</b>	<b>0.0206</b>	<b>3.1892</b>	<b>0.4961</b>	<b>3.6852</b>	<b>1.5414</b>	<b>0.4564</b>	<b>1.9978</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.4 Grading - 2029**

**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	7.8000e-003	0.4925	0.1536	2.0400e-003	0.0688	4.2000e-003	0.0730	0.0189	4.0200e-003	0.0229						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0211	0.0112	0.1629	5.7000e-004	0.0822	3.1000e-004	0.0825	0.0218	2.9000e-004	0.0221						
<b>Total</b>	<b>0.0289</b>	<b>0.5037</b>	<b>0.3165</b>	<b>2.6100e-003</b>	<b>0.1509</b>	<b>4.5100e-003</b>	<b>0.1554</b>	<b>0.0406</b>	<b>4.3100e-003</b>	<b>0.0450</b>						

**3.5 Underground Infrastructure/Utilities - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2028**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0112	6.0100e-003	0.0852	2.9000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.5000e-004	0.0111						
<b>Total</b>	<b>0.0112</b>	<b>6.0100e-003</b>	<b>0.0852</b>	<b>2.9000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>0.0111</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	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2028**

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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0112	6.0100e-003	0.0852	2.9000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.5000e-004	0.0111						
<b>Total</b>	<b>0.0112</b>	<b>6.0100e-003</b>	<b>0.0852</b>	<b>2.9000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>0.0111</b>						

**3.5 Underground Infrastructure/Utilities - 2029**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0106	5.5800e-003	0.0815	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.4000e-004	0.0110						
<b>Total</b>	<b>0.0106</b>	<b>5.5800e-003</b>	<b>0.0815</b>	<b>2.9000e-004</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.4000e-004</b>	<b>0.0110</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	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995						
<b>Total</b>	<b>0.2643</b>	<b>2.6702</b>	<b>4.4593</b>	<b>6.2400e-003</b>		<b>0.1082</b>	<b>0.1082</b>		<b>0.0995</b>	<b>0.0995</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.5 Underground Infrastructure/Utilities - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0106	5.5800e-003	0.0815	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.4000e-004	0.0110						
<b>Total</b>	<b>0.0106</b>	<b>5.5800e-003</b>	<b>0.0815</b>	<b>2.9000e-004</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.4000e-004</b>	<b>0.0110</b>						

**3.6 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0200	0.8528	0.2973	3.7000e-003	0.1355	5.1200e-003	0.1406	0.0390	4.9000e-003	0.0439						
Worker	0.0895	0.0481	0.6813	2.3500e-003	0.3286	1.3400e-003	0.3299	0.0872	1.2300e-003	0.0884						
<b>Total</b>	<b>0.1094</b>	<b>0.9009</b>	<b>0.9786</b>	<b>6.0500e-003</b>	<b>0.4641</b>	<b>6.4600e-003</b>	<b>0.4705</b>	<b>0.1262</b>	<b>6.1300e-003</b>	<b>0.1323</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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2028**

**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						
Vendor	0.0200	0.8528	0.2973	3.7000e-003	0.1355	5.1200e-003	0.1406	0.0390	4.9000e-003	0.0439						
Worker	0.0895	0.0481	0.6813	2.3500e-003	0.3286	1.3400e-003	0.3299	0.0872	1.2300e-003	0.0884						
<b>Total</b>	<b>0.1094</b>	<b>0.9009</b>	<b>0.9786</b>	<b>6.0500e-003</b>	<b>0.4641</b>	<b>6.4600e-003</b>	<b>0.4705</b>	<b>0.1262</b>	<b>6.1300e-003</b>	<b>0.1323</b>						

**3.6 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2029**

**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						
Vendor	0.0196	0.8438	0.2956	3.6200e-003	0.1355	5.0700e-003	0.1405	0.0390	4.8500e-003	0.0439						
Worker	0.0845	0.0446	0.6517	2.2900e-003	0.3286	1.2500e-003	0.3298	0.0872	1.1500e-003	0.0883						
<b>Total</b>	<b>0.1041</b>	<b>0.8884</b>	<b>0.9472</b>	<b>5.9100e-003</b>	<b>0.4641</b>	<b>6.3200e-003</b>	<b>0.4704</b>	<b>0.1262</b>	<b>6.0000e-003</b>	<b>0.1322</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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498						
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2029**

**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						
Vendor	0.0196	0.8438	0.2956	3.6200e-003	0.1355	5.0700e-003	0.1405	0.0390	4.8500e-003	0.0439						
Worker	0.0845	0.0446	0.6517	2.2900e-003	0.3286	1.2500e-003	0.3298	0.0872	1.1500e-003	0.0883						
<b>Total</b>	<b>0.1041</b>	<b>0.8884</b>	<b>0.9472</b>	<b>5.9100e-003</b>	<b>0.4641</b>	<b>6.3200e-003</b>	<b>0.4704</b>	<b>0.1262</b>	<b>6.0000e-003</b>	<b>0.1322</b>						

**3.6 Building Construction - 2030**

**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	1.2362	7.8973	13.6415	0.0275		0.1407	0.1407		0.1407	0.1407						
<b>Total</b>	<b>1.2362</b>	<b>7.8973</b>	<b>13.6415</b>	<b>0.0275</b>		<b>0.1407</b>	<b>0.1407</b>		<b>0.1407</b>	<b>0.1407</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2030**

**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						
Vendor	0.0193	0.8376	0.2946	3.5500e-003	0.1355	5.0400e-003	0.1405	0.0390	4.8200e-003	0.0438						
Worker	0.0796	0.0416	0.6257	2.2400e-003	0.3286	1.1600e-003	0.3298	0.0872	1.0700e-003	0.0882						
<b>Total</b>	<b>0.0989</b>	<b>0.8792</b>	<b>0.9203</b>	<b>5.7900e-003</b>	<b>0.4641</b>	<b>6.2000e-003</b>	<b>0.4703</b>	<b>0.1262</b>	<b>5.8900e-003</b>	<b>0.1320</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	1.2362	7.8973	13.6415	0.0275		0.1407	0.1407		0.1407	0.1407						
<b>Total</b>	<b>1.2362</b>	<b>7.8973</b>	<b>13.6415</b>	<b>0.0275</b>		<b>0.1407</b>	<b>0.1407</b>		<b>0.1407</b>	<b>0.1407</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.6 Building Construction - 2030**

**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						
Vendor	0.0193	0.8376	0.2946	3.5500e-003	0.1355	5.0400e-003	0.1405	0.0390	4.8200e-003	0.0438						
Worker	0.0796	0.0416	0.6257	2.2400e-003	0.3286	1.1600e-003	0.3298	0.0872	1.0700e-003	0.0882						
<b>Total</b>	<b>0.0989</b>	<b>0.8792</b>	<b>0.9203</b>	<b>5.7900e-003</b>	<b>0.4641</b>	<b>6.2000e-003</b>	<b>0.4703</b>	<b>0.1262</b>	<b>5.8900e-003</b>	<b>0.1320</b>						

**3.7 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.7 Paving - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0317	0.0167	0.2444	8.6000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331						
<b>Total</b>	<b>0.0317</b>	<b>0.0167</b>	<b>0.2444</b>	<b>8.6000e-004</b>	<b>0.1232</b>	<b>4.7000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.3000e-004</b>	<b>0.0331</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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.7 Paving - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0317	0.0167	0.2444	8.6000e-004	0.1232	4.7000e-004	0.1237	0.0327	4.3000e-004	0.0331						
<b>Total</b>	<b>0.0317</b>	<b>0.0167</b>	<b>0.2444</b>	<b>8.6000e-004</b>	<b>0.1232</b>	<b>4.7000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.3000e-004</b>	<b>0.0331</b>						

**3.7 Paving - 2030**

**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	1.0835	6.0018	12.5295	0.0218		0.2340	0.2340		0.2340	0.2340						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0835</b>	<b>6.0018</b>	<b>12.5295</b>	<b>0.0218</b>		<b>0.2340</b>	<b>0.2340</b>		<b>0.2340</b>	<b>0.2340</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.7 Paving - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0299	0.0156	0.2347	8.4000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331						
<b>Total</b>	<b>0.0299</b>	<b>0.0156</b>	<b>0.2347</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>4.4000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.0000e-004</b>	<b>0.0331</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	1.0835	6.0018	12.5295	0.0218		0.2340	0.2340		0.2340	0.2340						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0835</b>	<b>6.0018</b>	<b>12.5295</b>	<b>0.0218</b>		<b>0.2340</b>	<b>0.2340</b>		<b>0.2340</b>	<b>0.2340</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.7 Paving - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0299	0.0156	0.2347	8.4000e-004	0.1232	4.4000e-004	0.1237	0.0327	4.0000e-004	0.0331						
<b>Total</b>	<b>0.0299</b>	<b>0.0156</b>	<b>0.2347</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>4.4000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.0000e-004</b>	<b>0.0331</b>						

**3.8 Architectural Coating - 2029**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0169	8.9200e-003	0.1303	4.6000e-004	0.0657	2.5000e-004	0.0660	0.0174	2.3000e-004	0.0177						
<b>Total</b>	<b>0.0169</b>	<b>8.9200e-003</b>	<b>0.1303</b>	<b>4.6000e-004</b>	<b>0.0657</b>	<b>2.5000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.3000e-004</b>	<b>0.0177</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515						
<b>Total</b>	<b>0.1709</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2029**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0169	8.9200e-003	0.1303	4.6000e-004	0.0657	2.5000e-004	0.0660	0.0174	2.3000e-004	0.0177						
<b>Total</b>	<b>0.0169</b>	<b>8.9200e-003</b>	<b>0.1303</b>	<b>4.6000e-004</b>	<b>0.0657</b>	<b>2.5000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.3000e-004</b>	<b>0.0177</b>						

**3.8 Architectural Coating - 2030**

**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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203						
<b>Total</b>	<b>0.1308</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0159	8.3100e-003	0.1252	4.5000e-004	0.0657	2.3000e-004	0.0660	0.0174	2.1000e-004	0.0177						
<b>Total</b>	<b>0.0159</b>	<b>8.3100e-003</b>	<b>0.1252</b>	<b>4.5000e-004</b>	<b>0.0657</b>	<b>2.3000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.1000e-004</b>	<b>0.0177</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	0.0000					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203						
<b>Total</b>	<b>0.1308</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**3.8 Architectural Coating - 2030**

**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						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0159	8.3100e-003	0.1252	4.5000e-004	0.0657	2.3000e-004	0.0660	0.0174	2.1000e-004	0.0177						
<b>Total</b>	<b>0.0159</b>	<b>8.3100e-003</b>	<b>0.1252</b>	<b>4.5000e-004</b>	<b>0.0657</b>	<b>2.3000e-004</b>	<b>0.0660</b>	<b>0.0174</b>	<b>2.1000e-004</b>	<b>0.0177</b>						



Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**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					
Hospital	0	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>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hospital	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
Unmitigated	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>						

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.1500e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						
<b>Total</b>	<b>1.1500e-003</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Concourse Entry Construction/Knollwood Building Replacement - San Diego County, Winter

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Central and South Towers Demolition - San Diego County, Summer

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

**Central and South Towers Demolition  
San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	0.72	User Defined Unit	0.72	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics -

Land Use - Site area: 0.723 acres

Construction Phase - Construction schedule provided by PDC

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	88.00
tblConstructionPhase	NumDays	10.00	305.00

Central and South Towers Demolition - San Diego County, Summer

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

tblConstructionPhase	NumDays	2.00	65.00
tblGrading	MaterialImported	0.00	709.00
tblLandUse	LotAcreage	0.00	0.72

**2.0 Emissions Summary**

---



Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	0.5874	4.1198	7.7399	0.0157	0.9412	0.0852	1.0264	0.1597	0.0850	0.2447						
2031	0.8240	4.1509	7.7350	0.0184	5.4031	0.1328	5.5359	2.5928	0.1327	2.7255						
<b>Maximum</b>	<b>0.8240</b>	<b>4.1509</b>	<b>7.7399</b>	<b>0.0184</b>	<b>5.4031</b>	<b>0.1328</b>	<b>5.5359</b>	<b>2.5928</b>	<b>0.1327</b>	<b>2.7255</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					
2030	0.5874	4.1198	7.7399	0.0157	0.5037	0.0852	0.5889	0.0934	0.0850	0.1784						
2031	0.8240	4.1509	7.7350	0.0184	2.4807	0.1328	2.6135	1.1800	0.1327	1.3127						
<b>Maximum</b>	<b>0.8240</b>	<b>4.1509</b>	<b>7.7399</b>	<b>0.0184</b>	<b>2.4807</b>	<b>0.1328</b>	<b>2.6135</b>	<b>1.1800</b>	<b>0.1327</b>	<b>1.3127</b>						

## Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	52.96	0.00	51.20	53.74	0.00	49.80	0.00	0.00	0.00	0.00	0.00	0.00

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Energy	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						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-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>						

**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	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Energy	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						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-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>						

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4/1/2030	5/30/2031	5	305	
2	Grading	Grading	6/1/2031	8/29/2031	5	65	
3	Building Construction	Building Construction	9/1/2031	12/31/2031	5	88	

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

**Acres of Grading (Grading Phase): 48.75**

**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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20

Central and South Towers Demolition - San Diego County, Summer

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

Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
-----------------------	---------------------------	---	------	----	------

**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	4	10.00	0.00	1,107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	89.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7956	0.0000	0.7956	0.1205	0.0000	0.1205						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.7956</b>	<b>0.0811</b>	<b>0.8767</b>	<b>0.1205</b>	<b>0.0811</b>	<b>0.2015</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.2 Demolition - 2030**

**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	7.6400e-003	0.4320	0.1416	1.8300e-003	0.0635	3.8400e-003	0.0673	0.0174	3.6800e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0181	9.2400e-003	0.1633	5.9000e-004	0.0822	2.9000e-004	0.0824	0.0218	2.7000e-004	0.0221						
<b>Total</b>	<b>0.0257</b>	<b>0.4412</b>	<b>0.3049</b>	<b>2.4200e-003</b>	<b>0.1456</b>	<b>4.1300e-003</b>	<b>0.1498</b>	<b>0.0392</b>	<b>3.9500e-003</b>	<b>0.0431</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					0.3580	0.0000	0.3580	0.0542	0.0000	0.0542						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.3580</b>	<b>0.0811</b>	<b>0.4391</b>	<b>0.0542</b>	<b>0.0811</b>	<b>0.1353</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.2 Demolition - 2030**

**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	7.6400e-003	0.4320	0.1416	1.8300e-003	0.0635	3.8400e-003	0.0673	0.0174	3.6800e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0181	9.2400e-003	0.1633	5.9000e-004	0.0822	2.9000e-004	0.0824	0.0218	2.7000e-004	0.0221						
<b>Total</b>	<b>0.0257</b>	<b>0.4412</b>	<b>0.3049</b>	<b>2.4200e-003</b>	<b>0.1456</b>	<b>4.1300e-003</b>	<b>0.1498</b>	<b>0.0392</b>	<b>3.9500e-003</b>	<b>0.0431</b>						

**3.2 Demolition - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7956	0.0000	0.7956	0.1205	0.0000	0.1205						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.7956</b>	<b>0.0811</b>	<b>0.8767</b>	<b>0.1205</b>	<b>0.0811</b>	<b>0.2015</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.2 Demolition - 2031**

**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	7.6000e-003	0.4289	0.1428	1.7900e-003	0.0635	3.8200e-003	0.0673	0.0174	3.6500e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0170	8.6300e-003	0.1572	5.8000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220						
<b>Total</b>	<b>0.0246</b>	<b>0.4375</b>	<b>0.3000</b>	<b>2.3700e-003</b>	<b>0.1456</b>	<b>4.0900e-003</b>	<b>0.1497</b>	<b>0.0392</b>	<b>3.9000e-003</b>	<b>0.0431</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					0.3580	0.0000	0.3580	0.0542	0.0000	0.0542						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.3580</b>	<b>0.0811</b>	<b>0.4391</b>	<b>0.0542</b>	<b>0.0811</b>	<b>0.1353</b>						



Central and South Towers Demolition - San Diego County, Summer

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

**3.2 Demolition - 2031**

**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	7.6000e-003	0.4289	0.1428	1.7900e-003	0.0635	3.8200e-003	0.0673	0.0174	3.6500e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0170	8.6300e-003	0.1572	5.8000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220						
<b>Total</b>	<b>0.0246</b>	<b>0.4375</b>	<b>0.3000</b>	<b>2.3700e-003</b>	<b>0.1456</b>	<b>4.0900e-003</b>	<b>0.1497</b>	<b>0.0392</b>	<b>3.9000e-003</b>	<b>0.0431</b>						

**3.3 Grading - 2031**

**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					5.3135	0.0000	5.3135	2.5688	0.0000	2.5688						
Off-Road	0.8075	3.9822	4.9441	0.0173		0.1311	0.1311		0.1311	0.1311						
<b>Total</b>	<b>0.8075</b>	<b>3.9822</b>	<b>4.9441</b>	<b>0.0173</b>	<b>5.3135</b>	<b>0.1311</b>	<b>5.4446</b>	<b>2.5688</b>	<b>0.1311</b>	<b>2.6999</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.3 Grading - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8700e-003	0.1618	0.0539	6.8000e-004	0.0240	1.4400e-003	0.0254	6.5700e-003	1.3800e-003	7.9400e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0136	6.9000e-003	0.1257	4.6000e-004	0.0657	2.2000e-004	0.0659	0.0174	2.0000e-004	0.0176						
<b>Total</b>	<b>0.0164</b>	<b>0.1687</b>	<b>0.1796</b>	<b>1.1400e-003</b>	<b>0.0897</b>	<b>1.6600e-003</b>	<b>0.0913</b>	<b>0.0240</b>	<b>1.5800e-003</b>	<b>0.0256</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					2.3911	0.0000	2.3911	1.1560	0.0000	1.1560						
Off-Road	0.8075	3.9822	4.9441	0.0173		0.1311	0.1311		0.1311	0.1311						
<b>Total</b>	<b>0.8075</b>	<b>3.9822</b>	<b>4.9441</b>	<b>0.0173</b>	<b>2.3911</b>	<b>0.1311</b>	<b>2.5222</b>	<b>1.1560</b>	<b>0.1311</b>	<b>1.2871</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.3 Grading - 2031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8700e-003	0.1618	0.0539	6.8000e-004	0.0240	1.4400e-003	0.0254	6.5700e-003	1.3800e-003	7.9400e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0136	6.9000e-003	0.1257	4.6000e-004	0.0657	2.2000e-004	0.0659	0.0174	2.0000e-004	0.0176						
<b>Total</b>	<b>0.0164</b>	<b>0.1687</b>	<b>0.1796</b>	<b>1.1400e-003</b>	<b>0.0897</b>	<b>1.6600e-003</b>	<b>0.0913</b>	<b>0.0240</b>	<b>1.5800e-003</b>	<b>0.0256</b>						

**3.4 Building Construction - 2031**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621						
<b>Total</b>	<b>0.6099</b>	<b>3.2301</b>	<b>7.1570</b>	<b>0.0140</b>		<b>0.0621</b>	<b>0.0621</b>		<b>0.0621</b>	<b>0.0621</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.4 Building Construction - 2031**

**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						
Vendor	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						
<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>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621						
<b>Total</b>	<b>0.6099</b>	<b>3.2301</b>	<b>7.1570</b>	<b>0.0140</b>		<b>0.0621</b>	<b>0.0621</b>		<b>0.0621</b>	<b>0.0621</b>						

Central and South Towers Demolition - San Diego County, Summer

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

**3.4 Building Construction - 2031**

**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						
Vendor	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						
<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>						

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	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
User Defined Commercial	9.50	7.30	7.30	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
User Defined Commercial	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**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					
User Defined Commercial	0	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>						

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Commercial	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Unmitigated	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						



Central and South Towers Demolition - San Diego County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

Central and South Towers Demolition - San Diego County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Central and South Towers Demolition - San Diego County, Summer

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Central and South Towers Demolition - San Diego County, Winter

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

**Central and South Towers Demolition  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	0.72	User Defined Unit	0.72	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics -

Land Use - Site area: 0.723 acres

Construction Phase - Construction schedule provided by PDC

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Standard dust BMPs: water 2x daily; 12% soil moisture content; 15mph speed limit

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	88.00
tblConstructionPhase	NumDays	10.00	305.00

Central and South Towers Demolition - San Diego County, Winter

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

tblConstructionPhase	NumDays	2.00	65.00
tblGrading	MaterialImported	0.00	709.00
tblLandUse	LotAcreage	0.00	0.72

**2.0 Emissions Summary**

---

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2030	0.5888	4.1387	7.7346	0.0157	0.9412	0.0852	1.0264	0.1597	0.0850	0.2447						
2031	0.8252	4.1584	7.7300	0.0184	5.4031	0.1328	5.5359	2.5928	0.1327	2.7255						
<b>Maximum</b>	<b>0.8252</b>	<b>4.1584</b>	<b>7.7346</b>	<b>0.0184</b>	<b>5.4031</b>	<b>0.1328</b>	<b>5.5359</b>	<b>2.5928</b>	<b>0.1327</b>	<b>2.7255</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					
2030	0.5888	4.1387	7.7346	0.0157	0.5037	0.0852	0.5889	0.0934	0.0850	0.1784						
2031	0.8252	4.1584	7.7300	0.0184	2.4807	0.1328	2.6135	1.1800	0.1327	1.3127						
<b>Maximum</b>	<b>0.8252</b>	<b>4.1584</b>	<b>7.7346</b>	<b>0.0184</b>	<b>2.4807</b>	<b>0.1328</b>	<b>2.6135</b>	<b>1.1800</b>	<b>0.1327</b>	<b>1.3127</b>						

## Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	52.96	0.00	51.20	53.74	0.00	49.80	0.00	0.00	0.00	0.00	0.00	0.00

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Energy	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						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-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>						

**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	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Energy	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						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-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>						



Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4/1/2030	5/30/2031	5	305	
2	Grading	Grading	6/1/2031	8/29/2031	5	65	
3	Building Construction	Building Construction	9/1/2031	12/31/2031	5	88	

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

**Acres of Grading (Grading Phase): 48.75**

**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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20

Central and South Towers Demolition - San Diego County, Winter

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

Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
-----------------------	---------------------------	---	------	----	------

**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	4	10.00	0.00	1,107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	89.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7956	0.0000	0.7956	0.1205	0.0000	0.1205						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.7956</b>	<b>0.0811</b>	<b>0.8767</b>	<b>0.1205</b>	<b>0.0811</b>	<b>0.2015</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.2 Demolition - 2030**

**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	7.1500e-003	0.4497	0.1431	1.8300e-003	0.0635	3.8500e-003	0.0673	0.0174	3.6800e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0199	0.0104	0.1564	5.6000e-004	0.0822	2.9000e-004	0.0824	0.0218	2.7000e-004	0.0221						
<b>Total</b>	<b>0.0271</b>	<b>0.4601</b>	<b>0.2996</b>	<b>2.3900e-003</b>	<b>0.1456</b>	<b>4.1400e-003</b>	<b>0.1498</b>	<b>0.0392</b>	<b>3.9500e-003</b>	<b>0.0432</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					0.3580	0.0000	0.3580	0.0542	0.0000	0.0542						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.3580</b>	<b>0.0811</b>	<b>0.4391</b>	<b>0.0542</b>	<b>0.0811</b>	<b>0.1353</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.2 Demolition - 2030**

**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	7.1500e-003	0.4497	0.1431	1.8300e-003	0.0635	3.8500e-003	0.0673	0.0174	3.6800e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0199	0.0104	0.1564	5.6000e-004	0.0822	2.9000e-004	0.0824	0.0218	2.7000e-004	0.0221						
<b>Total</b>	<b>0.0271</b>	<b>0.4601</b>	<b>0.2996</b>	<b>2.3900e-003</b>	<b>0.1456</b>	<b>4.1400e-003</b>	<b>0.1498</b>	<b>0.0392</b>	<b>3.9500e-003</b>	<b>0.0432</b>						

**3.2 Demolition - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7956	0.0000	0.7956	0.1205	0.0000	0.1205						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.7956</b>	<b>0.0811</b>	<b>0.8767</b>	<b>0.1205</b>	<b>0.0811</b>	<b>0.2015</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.2 Demolition - 2031**

**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	7.1100e-003	0.4465	0.1444	1.8000e-003	0.0635	3.8200e-003	0.0673	0.0174	3.6600e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0187	9.7000e-003	0.1506	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220						
<b>Total</b>	<b>0.0258</b>	<b>0.4562</b>	<b>0.2950</b>	<b>2.3500e-003</b>	<b>0.1456</b>	<b>4.0900e-003</b>	<b>0.1497</b>	<b>0.0392</b>	<b>3.9100e-003</b>	<b>0.0431</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					0.3580	0.0000	0.3580	0.0542	0.0000	0.0542						
Off-Road	0.5617	3.6786	7.4350	0.0133		0.0811	0.0811		0.0811	0.0811						
<b>Total</b>	<b>0.5617</b>	<b>3.6786</b>	<b>7.4350</b>	<b>0.0133</b>	<b>0.3580</b>	<b>0.0811</b>	<b>0.4391</b>	<b>0.0542</b>	<b>0.0811</b>	<b>0.1353</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.2 Demolition - 2031**

**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	7.1100e-003	0.4465	0.1444	1.8000e-003	0.0635	3.8200e-003	0.0673	0.0174	3.6600e-003	0.0211						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0187	9.7000e-003	0.1506	5.5000e-004	0.0822	2.7000e-004	0.0824	0.0218	2.5000e-004	0.0220						
<b>Total</b>	<b>0.0258</b>	<b>0.4562</b>	<b>0.2950</b>	<b>2.3500e-003</b>	<b>0.1456</b>	<b>4.0900e-003</b>	<b>0.1497</b>	<b>0.0392</b>	<b>3.9100e-003</b>	<b>0.0431</b>						

**3.3 Grading - 2031**

**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					5.3135	0.0000	5.3135	2.5688	0.0000	2.5688						
Off-Road	0.8075	3.9822	4.9441	0.0173		0.1311	0.1311		0.1311	0.1311						
<b>Total</b>	<b>0.8075</b>	<b>3.9822</b>	<b>4.9441</b>	<b>0.0173</b>	<b>5.3135</b>	<b>0.1311</b>	<b>5.4446</b>	<b>2.5688</b>	<b>0.1311</b>	<b>2.6999</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.3 Grading - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6800e-003	0.1684	0.0545	6.8000e-004	0.0240	1.4400e-003	0.0254	6.5700e-003	1.3800e-003	7.9500e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0150	7.7600e-003	0.1205	4.4000e-004	0.0657	2.2000e-004	0.0659	0.0174	2.0000e-004	0.0176						
<b>Total</b>	<b>0.0176</b>	<b>0.1762</b>	<b>0.1750</b>	<b>1.1200e-003</b>	<b>0.0897</b>	<b>1.6600e-003</b>	<b>0.0913</b>	<b>0.0240</b>	<b>1.5800e-003</b>	<b>0.0256</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					2.3911	0.0000	2.3911	1.1560	0.0000	1.1560						
Off-Road	0.8075	3.9822	4.9441	0.0173		0.1311	0.1311		0.1311	0.1311						
<b>Total</b>	<b>0.8075</b>	<b>3.9822</b>	<b>4.9441</b>	<b>0.0173</b>	<b>2.3911</b>	<b>0.1311</b>	<b>2.5222</b>	<b>1.1560</b>	<b>0.1311</b>	<b>1.2871</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.3 Grading - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6800e-003	0.1684	0.0545	6.8000e-004	0.0240	1.4400e-003	0.0254	6.5700e-003	1.3800e-003	7.9500e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0150	7.7600e-003	0.1205	4.4000e-004	0.0657	2.2000e-004	0.0659	0.0174	2.0000e-004	0.0176						
<b>Total</b>	<b>0.0176</b>	<b>0.1762</b>	<b>0.1750</b>	<b>1.1200e-003</b>	<b>0.0897</b>	<b>1.6600e-003</b>	<b>0.0913</b>	<b>0.0240</b>	<b>1.5800e-003</b>	<b>0.0256</b>						

**3.4 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621						
<b>Total</b>	<b>0.6099</b>	<b>3.2301</b>	<b>7.1570</b>	<b>0.0140</b>		<b>0.0621</b>	<b>0.0621</b>		<b>0.0621</b>	<b>0.0621</b>						



Central and South Towers Demolition - San Diego County, Winter

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

**3.4 Building Construction - 2031**

**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						
Vendor	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						
<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>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621						
<b>Total</b>	<b>0.6099</b>	<b>3.2301</b>	<b>7.1570</b>	<b>0.0140</b>		<b>0.0621</b>	<b>0.0621</b>		<b>0.0621</b>	<b>0.0621</b>						

Central and South Towers Demolition - San Diego County, Winter

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

**3.4 Building Construction - 2031**

**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						
Vendor	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						
<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>						

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	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
User Defined Commercial	9.50	7.30	7.30	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
User Defined Commercial	0.578590	0.061509	0.169798	0.111299	0.022732	0.006598	0.010039	0.006283	0.000667	0.000641	0.027309	0.000818	0.003718

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	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						

**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					
User Defined Commercial	0	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>						

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Commercial	0	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>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
Unmitigated	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						

Central and South Towers Demolition - San Diego County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

Central and South Towers Demolition - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Central and South Towers Demolition - San Diego County, Winter

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

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---



Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**Sharp Medical Campus Modernization (Operations)**  
**San Diego County, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	422.52	1000sqft	7.30	422,520.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	588.98	<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**

Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

Project Characteristics - Updated intensity factors.

Land Use - Land Use - Mary Birch: 6-level building; 86,000 SF

Waste Dock: 1-level building; 3,200 SF

Hospital Tower: 7-level building; 207,000 SF

New Bridge: 2,320 SF

Concourse Entry: 2-level building; 4,000 SF

Knollwood Building: 120,000 SF

Site Area: 7.303 acres

Construction Phase - Operations only.

Vehicle Trips - No increase in hospital beds so no increase in vehicle trips.

Area Coating - No-VOC coatings.

Energy Use - Energy Use - Existing NG consumption: 1,659,794 therms

Project NG consumption: 1,950,000 therms

Net NG consumption: 290,206 therms

Consumer Products - Low VOC

## Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	7/5/2021	6/7/2021
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	68.68
tblEnergyUse	T24E	6.37	0.00
tblEnergyUse	T24NG	51.05	0.00
tblLandUse	LotAcreage	9.70	7.30
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	720.49	588.98
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	ST_TR	10.18	0.00
tblVehicleTrips	SU_TR	8.91	0.00
tblVehicleTrips	WD_TR	13.22	0.00

## 2.0 Emissions Summary

---



Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Energy	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.8613</b>	<b>7.7948</b>	<b>6.5902</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</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	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Energy	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.8613</b>	<b>7.7948</b>	<b>6.5902</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>						

## Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

	ROG	NOx	CO	SO2	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	6/8/2021	6/7/2021	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
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**3.2 Demolition - 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					
Off-Road	0.0000	0.0000	0.0000	0.0000	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**

---



Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.617300	0.036803	0.177181	0.097171	0.011708	0.005278	0.017975	0.025881	0.001935	0.001656	0.005577	0.000792	0.000744

Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**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	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							
NaturalGas Unmitigated	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							

Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**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					
Hospital	79503.2	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
<b>Total</b>		<b>0.8574</b>	<b>7.7944</b>	<b>6.5473</b>	<b>0.0468</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5924</b>	<b>0.5924</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	lb/day										lb/day					
Hospital	79.5032	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
<b>Total</b>		<b>0.8574</b>	<b>7.7944</b>	<b>6.5473</b>	<b>0.0468</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5924</b>	<b>0.5924</b>						

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Unmitigated	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						

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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
<b>Total</b>	<b>3.9300e-003</b>	<b>3.9000e-004</b>	<b>0.0429</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>						

Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

**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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
<b>Total</b>	<b>3.9300e-003</b>	<b>3.9000e-004</b>	<b>0.0429</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>						

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

## Sharp Medical Campus Modernization (Operations) - San Diego County, Summer

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**Sharp Medical Campus Modernization (Operations)**  
**San Diego County, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	422.52	1000sqft	7.30	422,520.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2032
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	588.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

Project Characteristics - Updated intensity factors.

Land Use - Land Use - Mary Birch: 6-level building; 86,000 SF

Waste Dock: 1-level building; 3,200 SF

Hospital Tower: 7-level building; 207,000 SF

New Bridge: 2,320 SF

Concourse Entry: 2-level building; 4,000 SF

Knollwood Building: 120,000 SF

Site Area: 7.303 acres

Construction Phase - Operations only.

Vehicle Trips - No increase in hospital beds so no increase in vehicle trips.

Area Coating - No-VOC coatings.

Energy Use - Energy Use - Existing NG consumption: 1,659,794 therms

Project NG consumption: 1,950,000 therms

Net NG consumption: 290,206 therms

Consumer Products - Low VOC



## Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	7/5/2021	6/7/2021
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	4.52	0.00
tblEnergyUse	NT24E	5.87	0.00
tblEnergyUse	NT24NG	6.92	68.68
tblEnergyUse	T24E	6.37	0.00
tblEnergyUse	T24NG	51.05	0.00
tblLandUse	LotAcreage	9.70	7.30
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	720.49	588.98
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	ST_TR	10.18	0.00
tblVehicleTrips	SU_TR	8.91	0.00
tblVehicleTrips	WD_TR	13.22	0.00

## 2.0 Emissions Summary

---



Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Energy	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.8613</b>	<b>7.7948</b>	<b>6.5902</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</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	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Energy	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.8613</b>	<b>7.7948</b>	<b>6.5902</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>	<b>0.0000</b>	<b>0.5925</b>	<b>0.5925</b>						

## Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

	ROG	NOx	CO	SO2	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	6/8/2021	6/7/2021	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
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**3.2 Demolition - 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					
Off-Road	0.0000	0.0000	0.0000	0.0000	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**

---

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**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	0.0000	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						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.617300	0.036803	0.177181	0.097171	0.011708	0.005278	0.017975	0.025881	0.001935	0.001656	0.005577	0.000792	0.000744

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**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	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							
NaturalGas Unmitigated	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							



Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**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						
Hospital	79503.2	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							
<b>Total</b>		<b>0.8574</b>	<b>7.7944</b>	<b>6.5473</b>	<b>0.0468</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5924</b>	<b>0.5924</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	lb/day										lb/day						
Hospital	79.5032	0.8574	7.7944	6.5473	0.0468		0.5924	0.5924		0.5924	0.5924							
<b>Total</b>		<b>0.8574</b>	<b>7.7944</b>	<b>6.5473</b>	<b>0.0468</b>		<b>0.5924</b>	<b>0.5924</b>		<b>0.5924</b>	<b>0.5924</b>							

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
Unmitigated	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						

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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
<b>Total</b>	<b>3.9300e-003</b>	<b>3.9000e-004</b>	<b>0.0429</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>						

Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

**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						
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000						
Landscaping	3.9300e-003	3.9000e-004	0.0429	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004						
<b>Total</b>	<b>3.9300e-003</b>	<b>3.9000e-004</b>	<b>0.0429</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>						

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

## Sharp Medical Campus Modernization (Operations) - San Diego County, Winter

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---