

# **Air Quality and Greenhouse Gas Emissions Assessment**

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## **Victorville Wellness Center Project**

Victorville, California

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Attachment A - CalEEMod Output Files

**LIST OF ACRONYMS AND ABBREVIATIONS**

µg/m <sup>3</sup>	Micrograms per cubic meter
AB	Assembly Bill
APCD	Air Pollution Control District
AQMP	Air Quality Management Plan
BNSFRR	Burlington Northern Santa Fe Railroad
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

**LIST OF ACRONYMS AND ABBREVIATIONS**

CH <sub>4</sub>	Methane
City	City of Victorville
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalents
DPM	Diesel particulate matter
EO	Executive Order
FTA	Federal Transit Administration
FHWA	Federal Highway Administration
GHG	Greenhouse gas
IPCC	Intergovernmental Panel on Climate Change
LOS	Level of service
MDAB	Mojave Desert Air Basin
MDAMQD	Mojave Desert Air Quality Management District
NAAQS	National Ambient Air Quality Standards
NO <sub>2</sub>	Nitrogen dioxide
NO <sub>x</sub>	Nitrogen oxide
N <sub>2</sub> O	Nitrous oxide
OPR	Office of Planning and Research
OTSP	Old Town Specific Plan
O <sub>3</sub>	Ozone
PM <sub>10</sub>	Coarse particulate matter
PM <sub>2.5</sub>	Fine particulate matter
Ppm	Parts per million
RACT	Reasonably Available Control Technologies
ROG	Reactive organic gas
SB	Senate Bill
SF	Square Feet
MDAQMD	Mojave Desert Air Quality Management District
SIP	State Implementation Plan
MDAB	Mojave Desert Air Basin
SO <sub>2</sub>	Sulfur dioxide
SRA	Source receptor area
TACs	Toxic air contaminants
USEPA	U.S. Environmental Protection Agency
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

## **1.0 INTRODUCTION**

This report documents the results of an assessment of both air quality and greenhouse gas (GHG) emissions completed for the Victorville Wellness Center Project (Project), which includes the development of 23,360 square feet (SF) of building space with 168 beds and supporting services buildings (Phase 1); and 30 320-square foot affordable housing cottages and associated features (Phase 2) on 4.5 acres of land at the northern edge of the Old Town Specific Plan (OTSP) area in the City of Victorville, California (Figure 1-1). The Project would include parking spaces, bicycle parking, a classroom, 3 covered patios, landscaping, garden, community farm, dog run, and entry plaza, bus stop and associated site improvements (utilities, landscaping, etc.). This assessment was prepared using methodologies and assumptions recommended in the rules and regulations of the Mojave Desert Air Quality Management District (MDAQMD). Regional and local existing conditions are presented, along with pertinent emissions standards and regulations. The purpose of this assessment is to estimate Project-generated criteria air pollutants and GHG emissions attributable to the Project and to determine the level of impact the Project would have on the environment.

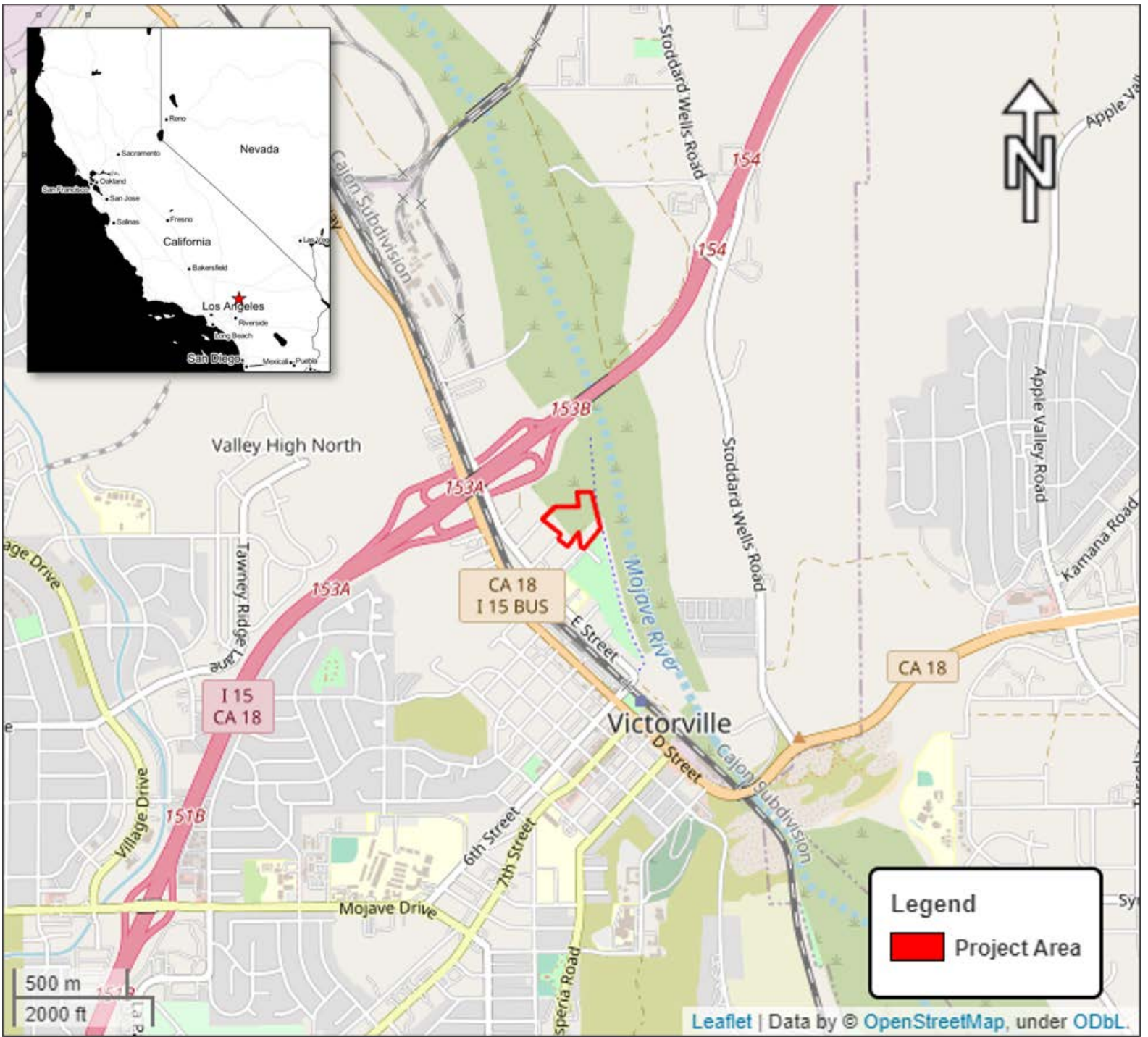
### **1.1 Project Location**

The Proposed Project is located on a 4.5-acre site at the northeastern edge of Victorville, California. The site is located west of the Mojave River and south of Interstate 15 (I-15), approximately 90 miles northeast of the City of Los Angeles and 30 miles north of the City of San Bernardino. The Site is generally bound by I-15 to the north, with a gas station, vacant land, and industrial facilities beyond; single-family residences fronting River Street, Cottonwood Street, and Willow Street to the west, with the Friendly Temple Church of God, E Street, and the Burlington Northern Santa Fe Railroad (BNSFRR) beyond; Eva Dell Park to the south, with the BNSFRR, and a Greyhound bus station beyond; and the Mojave River to the east, with vacant land beyond (Figure 1-2). The Project Site is currently undeveloped with a scattering of vegetation and some debris spread throughout the Site.

The Project Site was originally zoned for Open Space and Active Open Space in the 2018 OTSP. However, on June 16, 2021 the OTSP was amended to re-designate the Project Site to Medium Density Residential (Ordinance No. 2420). Homeless and emergency shelters are currently permitted in the Commercial (C-1 only) zone, and conditionally permitted within the Mixed Density, Medium Density and High-Density Residential zones. The Site is bordered by open space, public park, residential, commercial, and light industrial land uses.

### **1.2 Project Objectives**

The Proposed Project would fulfill goals and policies set out by the Housing Element by providing publicly owned land to build affordable living opportunities that will enhance the quality of life for the City's homeless population. The Wellness Center Campus aims to provide a supportive, safe and stable environment for homeless persons and their families to receive life-changing services needed to break the cycle of homelessness and improve quality of life. The main Wellness Center is planned as a low-barrier, navigation center providing interim housing, supportive services, medical oversight and recuperative care to help homeless men, women, and families transition out of homelessness. In addition, permanent

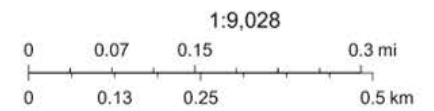


**Figure 1-1. Project Location**  
Victorville Wellness Center



9/22/2021

- |                                       |                                  |                       |
|---------------------------------------|----------------------------------|-----------------------|
| Project Boundary                      | Highway 15                       | Vacant Land           |
| Surrounding Land Use                  | Surrounding Land Use Areas       | Mojave River Greenway |
| Transportation Sources                | Single-Family Residential        | Parkland              |
| Burlington Northern Santa Fe Railroad | Mixed Use Commercial/Residential | School                |



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ENVIRONMENTAL CONSULTANTS

**Figure 1-2. Surrounding Land Uses**  
Victorville Wellness Center

supportive housing units will be a component of the campus allowing some guests to transfer from the emergency shelter, that provides interim housing for approximately 180 days, to the abutting 30-unit permanent supportive housing area. An onsite medical clinic would be available to the residents of the campus and the community. Case managers would be onsite to develop individualized service plans that include a successful exit strategy to stable housing. Individuals would be connected to tools and resources to help break the cycle of homelessness.

### **1.3 Project Characteristics**

The Project would be constructed in two phases. Phase 1 includes 23,360 SF of building space with 168 beds and supporting services buildings, parking spaces, bicycle parking, a classroom, 3 covered patios, landscaping, garden, community farm, dog run, and entry plaza, bus stop and associated site improvements (utilities, landscaping, etc.). Phase 2 includes permanent affordable housing adjacent to the Wellness Center. The Project Site is part of the Old Town Specific Plan (OTSP) area, for which an Initial Study/Mitigated Negative Declaration was completed in November 2018.

#### **1.3.1 Phase 1**

##### **1.3.1.1 Navigation Center Buildings**

The Project would construct four (4) separate residential buildings including one family unit building, three single unit buildings, and one behavioral health building. Each building would be 2,240 SF. The family unit building would be located in the southeastern portion of the Project Site, and the other buildings are positioned in the northern portion of the site.

##### **1.3.1.2 Recuperative Care Center Buildings**

The Project would construct two recuperative care buildings, each totaling 2,240 SF. Both units would have 24 beds, three showers, three toilets, and one accessible toilet. These buildings would be located on the eastern portion of the campus.

##### **1.3.1.3 Cafeteria**

The Project would include a 2,880-SF cafeteria with 1,842 SF of dining space, 696-SF kitchen area, and 342-SF toilet area. The cafeteria would be located in the center of the campus.

##### **1.3.1.4 Office Space**

The Project would construct a 1,440-SF wellness center building, 1,440-SF recuperative care building, and a 1,440-SF exam/clinic building in the center of the campus.

##### **1.3.1.5 Circulation and Parking**

In total, the Project would construct four accessible parking spaces, 27 standard parking spaces, four EV charging stations, and four clean air/vanpool spaces for a total of 39 parking spaces. The Project includes



a tubular steel driveway with sliding gate, bus stop lane, a 20-foot-wide fire truck loop road, short-term and long-term bicycle parking areas, and pedestrian walkways throughout the campus.

### **1.3.1.6 Other Facilities**

The Project would construct a 480-SF laundry facility, elevated central courtyard, 448-SF classroom, two covered patios and outdoor dining areas, a community farm area, garden area, entry plaza, dog run/dog kennel area, outdoor locker area and covered patio, landscaping, utilities, and associated facilities. The entire property would be surrounded by chain link and tubular steel fencing.

### **1.3.2 Phase 2**

Phase 2 of the Wellness Center would include a micro-housing community called the Wellness Cottages that provide permanent affordable housing adjacent to the Wellness Center. These units would be located in the southwestern portion of the Project Site. Each 320-SF cottage (30 units total) would contain an accessible restroom, living/sleeping area, dining space, kitchenette, and storage unit. These units would assist those exiting the temporary Wellness Center shelter or who are chronically homeless. Phase 2 would also include separate parking, landscaping, utilities, and associated facilities for the Wellness Cottages.

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## **2.0 AIR QUALITY**

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### **2.1 Air Quality Setting**

Air quality in a region is determined by its topography, meteorology, and existing air pollutant sources. These factors are discussed below, along with the current regulatory structure that applies to the Mojave Desert Air Basin (MDAB), which encompasses the Project Site, pursuant to the regulatory authority of the MDAQMD.

Ambient air quality is commonly characterized by climate conditions, the meteorological influences on air quality, and the quantity and type of pollutants released. The air basin is subject to a combination of topographical and climatic factors that reduce the potential for high levels of regional and local air pollutants. The following section describes the pertinent characteristics of the air basin and provides an overview of the physical conditions affecting pollutant dispersion in the Project vicinity.

#### **2.1.1 Mojave Desert Air Basin**

The MDAB is comprised of four air districts, the Kern County APCD, the Antelope Valley AQMD, the Mojave Desert AQMD, and the eastern portion of the South Coast AQMD. The Kern County APCD consists of the eastern portion of Kern County; the Antelope Valley AQMD consists of the northeastern portion of Los Angeles County; the Mojave Desert AQMD includes San Bernardino County and the most eastern portion of Riverside County; and the portion of the South Coast AQMD includes the eastern part of Riverside County.

### **2.1.1.1 Topography and Climate**

The MDAB is an assemblage of mountain ranges interspersed with long broad valleys that often contain dry lakes. Many of the lower mountains which dot the vast terrain rise from 1,000 to 4,000 feet above the valley floor. Prevailing winds in the MDAB are out of the west and southwest. These prevailing winds are due to the proximity of the MDAB to coastal and central regions and the blocking nature of the Sierra Nevada mountains to the north; air masses pushed onshore in southern California by differential heating are channeled through the MDAB. The MDAB is separated from the southern California coastal and central California valley regions by mountains (highest elevation approximately 10,000 feet), whose passes form the main channels for these air masses. The Antelope Valley is bordered in the northwest by the Tehachapi Mountains, separated from the Sierra Nevadas in the north by the Tehachapi Pass (3,800 feet elevation). The Antelope Valley is bordered in the south by the San Gabriel Mountains, bisected by Soledad Canyon (3,300 feet). The Mojave Desert is bordered in the southwest by the San Bernardino Mountains, separated from the San Gabriels by the Cajon Pass (4,200 feet). A lesser channel lies between the San Bernardino Mountains and the Little San Bernardino Mountains (the Morongo Valley). The Palo Verde Valley portion of the Mojave Desert lies in the low desert, at the eastern end of a series of valleys (notably the Coachella Valley) whose primary channel is the San Gorgonio Pass (2,300 feet) between the San Bernardino and San Jacinto Mountains.

During the summer, the MDAB is generally influenced by a Pacific Subtropical High cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. The MDAB is rarely influenced by cold air masses moving south from Canada and Alaska, as these frontal systems are weak and diffuse by the time they reach the desert. Most desert moisture arrives from infrequent warm, moist and unstable air masses from the south. The MDAB averages between three and seven inches of precipitation per year (from 16 to 30 days with at least 0.01 inches of precipitation). The MDAB is classified as a dry-hot desert climate (BWh), with portions classified as dry-very hot desert (BWbh), to indicate at least three months have maximum average temperatures over 100.4° F.

### **2.1.2 Criteria Air Pollutants**

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established air quality standards for outdoor or ambient concentrations to protect public health with a determined margin of safety. Ozone (O<sub>3</sub>), coarse particulate matter (PM<sub>10</sub>), and fine particulate matter (PM<sub>2.5</sub>) are generally considered to be regional pollutants because they or their precursors affect air quality on a regional scale. Pollutants such as carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), and sulfur dioxide (SO<sub>2</sub>) are considered to be local pollutants because they tend to accumulate in the air locally. PM is also considered a local pollutant. Health effects commonly associated with criteria pollutants are summarized in Table 2-1.

<b>Table 2-1. Criteria Air Pollutants- Summary of Common Sources and Effects</b>		
<b>Pollutant</b>	<b>Major Man-Made Sources</b>	<b>Human Health &amp; Welfare Effects</b>
CO	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, effecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
NO <sub>2</sub>	A reddish-brown gas formed during fuel combustion for motor vehicles, energy utilities and industrial sources.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Causes brown discoloration of the atmosphere.
O <sub>3</sub>	Formed by a chemical reaction between reactive organic gases and nitrogen oxides (NO <sub>x</sub> ) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, solvents, paints and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.
PM <sub>10</sub> & PM <sub>2.5</sub>	Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
SO <sub>2</sub>	A colorless, nonflammable gas formed when fuel containing sulfur is burned. Examples are refineries, cement manufacturing, and locomotives.	Respiratory irritant. Aggravates lung and heart problems. Can damage crops and natural vegetation. Impairs visibility.

Source: California Air Pollution Control Officers Association (CAPCOA 2013)

### 2.1.3 Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For regulatory purposes, carcinogenic TACs are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

There are many different types of TACs, with varying degrees of toxicity. Sources of TACs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as from accidental releases of hazardous materials during upset conditions. The health effects of TACs include cancer, birth defects, neurological damage, and death.

### 2.1.4 Ambient Air Quality

O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are the pollutant species most potently affecting the Project region. Ambient air quality at the Project Site can be inferred from ambient air quality measurements conducted at nearby air quality monitoring stations. The California Air Resources Board (CARB) maintains more than 60 monitoring stations throughout California. The Victorville - Park Avenue air quality monitoring station (14306 Park Avenue, Victorville, CA 92392), located approximately 2.82 miles southwest of the Project Site, is the closest station to the Site. The Victorville - Park Avenue monitoring station monitors ambient concentrations of O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>. Ambient emission concentrations will vary due to localized variations in emission sources and climate and should be considered “generally” representative of ambient concentrations in the Project vicinity.

Table 2-2 summarizes the published data concerning O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub> since 2018 from the Victorville - Park Avenue monitoring station for each year that the monitoring data is provided. As previously described, O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are the pollutant species most potently affecting the Project region.

<b>Table 2-2. Summary of Ambient Air Quality Data</b>			
<b>Pollutant Standards</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>O<sub>3</sub> – Victorville - Park Avenue Monitoring Station</b>			
Max 1-hour concentration (ppm)	0.107	0.104	0.112
Max 8-hour concentration (ppm) (state/federal)	0.097 / 0.096	0.082 / 0.081	0.095 / 0.094
Number of days above 1-hour standard (state/federal)	5 / 0	3 / 0	4 / 0
Number of days above 8-hour standard (state/federal)	56 / 55	34 / 29	38 / 35
<b>PM<sub>10</sub> – Victorville - Park Avenue Monitoring Station</b>			
Max 24-hour concentration (µg/m <sup>3</sup> ) (state/federal)	* / 165.2	* / 170.0	* / 261.4
Number of days above 24-hour standard (state/federal)	* / 1.0	* / 1.9	* / 1.9
<b>PM<sub>2.5</sub> – Victorville - Park Avenue Monitoring Station</b>			
Max 24-hour concentration (µg/m <sup>3</sup> ) (state/federal)	33.2 / 32.7	20.0 / 17.8	48.7 / 48.4
Number of days above federal 24-hour standard	0.0	0.0	4.0

Source: CARB 2021a

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

\* = Insufficient data available

The U.S. Environmental Protection Agency (USEPA) and CARB designate air basins or portions of air basins and counties as being in “attainment” or “nonattainment” for each of the criteria pollutants. Areas that do not meet the standards are classified as nonattainment areas. The National Ambient Air Quality Standards (NAAQS) (other than O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and those based on annual averages or arithmetic mean) are not to

be exceeded more than once per year. The NAAQS for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are based on statistical calculations over one- to three-year periods, depending on the pollutant. The California Ambient Air Quality Standards (CAAQS) are not to be exceeded during a three-year period. The attainment status for the MDAB is included in Table 2-3.

<b>Pollutant</b>	<b>State Designation</b>	<b>Federal Designation</b>
O <sub>3</sub>	Nonattainment	Nonattainment
PM <sub>10</sub>	Nonattainment	Nonattainment
PM <sub>2.5</sub>	Attainment	Unclassified/Attainment
CO	Attainment	Unclassified/Attainment
NO <sub>2</sub>	Attainment	Unclassified/Attainment
SO <sub>2</sub>	Attainment	Unclassified/Attainment

Source: CARB 2019

The determination of whether an area meets the state and federal standards is based on air quality monitoring data. Some areas are unclassified, which means there is insufficient monitoring data for determining attainment or nonattainment. Unclassified areas are typically treated as being in attainment. Because the attainment/nonattainment designation is pollutant specific, an area may be classified as nonattainment for one pollutant and attainment for another. Similarly, because the state and federal standards differ, an area could be classified as attainment for the federal standards of a pollutant and as nonattainment for the state standards of the same pollutant. The region is designated as a nonattainment area for the federal and state O<sub>3</sub> and PM<sub>2.5</sub> standards (CARB 2019).

### **2.1.5 Sensitive Receptors**

Sensitive receptors are defined as facilities or land uses that include members of the population who are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis. The nearest sensitive receptors to the Project Site are the single-family residences located directly adjacent to the Project boundary to the southwest and the community park located directly adjacent to the southeast (Figure 1-2).

## **2.2 Regulatory Framework**

### **2.2.1 Federal**

#### **2.2.1.1 Clean Air Act**

The Clean Air Act (CAA) of 1970 and the CAA Amendments of 1971 required the USEPA to establish the NAAQS, with states retaining the option to adopt more stringent standards or to include other specific pollutants. On April 2, 2007, the U.S. Supreme Court found that carbon dioxide (CO<sub>2</sub>) is an air pollutant covered by the CAA; however, no NAAQS have been established for CO<sub>2</sub>.

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

The USEPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. Table 2-3 lists the federal attainment status of the MDAB for the criteria pollutants.

### **2.2.2 State**

#### **2.2.2.1 California Clean Air Act**

The California CAA (CCAA) allows the state to adopt ambient air quality standards and other regulations provided that they are at least as stringent as federal standards. CARB, a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the CAAQS. CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB also has primary responsibility for the development of California’s State Implementation Plan (SIP), for which it works closely with the federal government and the local air districts.

#### **2.2.2.2 California State Implementation Plan**

The federal AA (and its subsequent amendments) requires each state to prepare an air quality control plan referred to as the SIP. The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with

jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the CAA. The USEPA has the responsibility to review all SIPs to determine if they conform to the requirements of the CAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the USEPA for approval and publication in the Federal Register.

The MDAQMD is the agency primarily responsible for ensuring that national and state ambient air quality standards are not exceeded and that air quality conditions are maintained in the MDAB. In an attempt to achieve NAAQS and CAAQS and maintain air quality, the air district has completed the following air quality attainment plans and reports, which together constitute the SIP for the portion of the MDAB encompassing the Project:

- Mojave Desert Planning Area PM<sub>10</sub> Attainment Plan
- MDAQMD Ozone Attainment Plan 2004 (State & Federal)
- MDAQMD Reasonable Further Progress/Rate-of-Progress Plan
- MDAQMD Post 1996 Attainment Demonstration and Reasonable Further Progress Plan
- MDAQMD Schedule for District Measures to Reduce PM Pursuant to H&S Code 39614(d)
- MDAQMD 2006 8-Hour Ozone Reasonably Available Control Technology – State Implementation Plan Analysis
- MDAQMD 2014 Supplement to the 2006 8-Hour Ozone Reasonably Available Control Technology – State Implementation Plan Analysis
- MDAQMD 8-Hour Ozone Federal Negative Declarations for 44 Source Categories
- MDAQMD Smoke Management Program
- MDAQMD Ozone Attainment Plan 2008 (Western Mojave Desert Non-Attainment Area)
- MDAQMD 2015 8-Hour Reasonably Available Control Technology – State Implementation Plan Analysis
- MDAQMD 2015 Federal Negative Declaration (8-Hour Ozone Standard) for Nineteen Control Technique Guideline Categories

### **2.2.3 Local**

#### **2.2.3.1 Mojave Desert Air Quality Management District**

As previously described, the MDAQMD is the agency primarily responsible for ensuring that federal and state ambient air quality standards are not exceeded and that air quality conditions are maintained.

Responsibilities of the MDAQMD include, but are not limited to, adopting and enforcing rules and regulations concerning sources of air pollution, issuing permits for stationary sources of air pollution, monitoring ambient air quality and meteorological conditions, and implementing programs and regulations required by the federal CAA and CAA Amendments. Provisions applicable to the Proposed Project are summarized as follows:

- **Rule 201 – Permits to Construct** applies to the construction of air emissions sources that are not otherwise exempt under Rule 219.
- **Rule 203 – Permit to Operate** requires air emissions sources that are not exempted by Rule 219 to obtain operating permit.
- **Rule 204 – Requirements** contains rule language describing New Source Review including Best Available Control Technology (BACT) and emissions offset requirements for stationary sources.
- **Rule 219 – Equipment Not Requiring a Permit** describes the type of equipment that does not require a permit pursuant to District Rules 201 and 203.
- **Rule 401 – Visible Emissions** limits visibility of fugitive dust to less than No. 1 on the Ringlemann Chart (i.e., 20 percent opacity).
- **Rule 402 – Nuisance** applies when complaints from the public are received by the district.
- **Rule 403 – Fugitive Dust** prohibits visible dust beyond the property line of the emission source, requires “every reasonable precaution” to minimize fugitive dust emissions and prevent trackout of materials onto public roadways, and prohibits greater than 100 µg/m<sup>3</sup> difference between upwind and downwind particulate concentrations.
- **Rule 404 – Particulate Matter Concentration** sets concentration limits based on the flow rate of the discharge. The concentration limits would apply to discharge from a stack (e.g., baghouse).
- **Rule 405 – Solid Particulate Matter Weight** limits emissions based on the weight of material processed.
- **Rule 900 – New Source Performance Standards** incorporates federal regulation (40 CFR 60) that affects the construction of emissions units. Requirements may or may not apply depending on the size, construction, and manufacture date of equipment that will be used. Specifically, NSPS OOO (40 CFR 60.670) applies to equipment in nonmetallic mineral processing plants.
- **Regulation XIII – New Source Review** contains a number of rules that are applied to new and modified sources.
- **Rule 1520 – Control of Toxic Air Contaminants from Existing Sources** implements AB 2588 Air Toxics Hot Spots requirements.
- **Rule 2002 – General Federal Actions Conformity** requires federal actions to conform to the applicable implementation plan.



### **2.2.3.2 City of Victorville Old Town Specific Planning Area**

Along with the various state, federal, and MDAQMD rules and regulations, the Proposed Project is subject to the following policies and mitigation measures promulgated by the City of Victorville OTSP.

**Policy 7-8:** (Transit System Policies) As development applications and improvements are contemplated throughout the Specific Plan area, configure roadways and buildings to support transit by providing appropriate curb-returns and bus turnouts in the study area. Consider potential shuttle opportunities, as funding is available, to connect the Old Town core to major employment centers in the area.

**MM 3a-1:** All future development within the OTSP project area shall be required to conform with all Mojave Desert AQMD rules and regulations applicable to the specific project proposal. Specific rules applicable to future and subsequent projects under the OTSP may include, but are not limited to, Regulation 1 – General Provisions, Rule 401 – Visibility Emissions, Rule 402 – Nuisances, Rule 403 – Fugitive Dust, and Rule 442 – Usage of Solvents.

**MM 8a-1:** All future development within the OTSP project area shall be required to implement the following management practices during construction activities:

- a) Perform 90-day low-NO<sub>x</sub> tune-ups for off-road equipment operating in the Old Town Specific Plan project area.
- b) Limit allowable idling to 5 minutes for trucks and heavy equipment.
- c) Construction operators shall use Tier 3-rated engines during site grading for all equipment exceeding 100 horsepower, if available.
- d) Construction operators shall utilize equipment with engines equipped with diesel oxidation catalysts, if available.
- e) Construction operators shall utilize diesel particulate filter and diesel oxidation catalyst on heavy equipment, where feasible.

## **2.3 Air Quality Emissions Impact Assessment**

### **2.3.1 Thresholds of Significance**

The impact analysis provided below is based on the following California Environmental Quality Act (CEQA) Guidelines Appendix G thresholds of significance. The Project would result in a significant impact to air quality if it would:

- Conflict with or obstruct implementation of any applicable air quality plan;

- Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors);
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors adversely affecting a substantial number of people).

### 2.3.1.1 Mojave Desert Air Quality Management District Thresholds

The significance criteria established by the applicable air quality management or air pollution control district (MDAQMD) may be relied upon to make the above determinations. According to the MDAQMD, an air quality impact is considered significant if the Proposed Project would violate any ambient air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations. The MDAQMD has established thresholds of significance for air quality for construction and operational activities of land use development projects. The thresholds applicable to the construction phases and operation are shown in Table 2-4.

<b>Table 2-4. MDAQMD Regional Significance Thresholds</b>	
<b>Air Pollutant</b>	<b>Construction / Operation Activities</b>
	<b>Pounds Per Day</b>
Reactive Organic Gas	137
Carbon Monoxide	548
Nitrogen Oxide	137
Sulfur Oxide	137
Coarse Particulate Matter (PM <sub>10</sub> )	82
Fine Particulate Matter (PM <sub>2.5</sub> )	65
	<b>Tons Per Year</b>
Reactive Organic Gas	25
Carbon Monoxide	100
Nitrogen Oxide	25
Sulfur Oxide	25
Coarse Particulate Matter (PM <sub>10</sub> )	15
Fine Particulate Matter (PM <sub>2.5</sub> )	12

Source: MDAQMD 2016

By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's individual emissions exceed its identified significance thresholds, the project would be cumulatively considerable. Projects that do not exceed significance thresholds would not be considered cumulatively considerable.

### **2.3.1.2 MDAQMD Air Quality Attainment Plans**

As previously mentioned, the Project Site is located within the MDAB, which is under the jurisdiction of the MDAQMD. The MDAQMD is required, pursuant to the federal CAA, to reduce emissions of criteria pollutants for which the air basin is in nonattainment. In order to reduce such emissions, the MDAQMD adopts and enforces rules and regulations concerning sources of air pollution, issues permits for stationary sources of air pollution, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by the federal CAA and CAA Amendments. The MDAQMD also assists CARB in preparing the SIP by preparing Attainment Plans that demonstrate how the ambient air quality standards will be achieved. The Attainment Plans describe the rules that will be developed and other means by which the MDAQMD will manage the emissions within its jurisdiction.

A project conforms with the MDAQMD Attainment Plans if it complies with all applicable district rules and regulations, complies with all proposed control measures from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). A project is nonconforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. Conformity with growth forecasts can be established by demonstrating that the Project is consistent with the land use plan that was used to generate the growth forecast. An example of a nonconforming project would be one that increases the gross number of dwelling units, increases the number of trips, and/or increases the overall vehicle miles traveled in an affected area; relative to the applicable land use plan.

### **2.3.1.3 United States Environmental Protection Agency Conformity Determination Analysis**

General Conformity ensures that the actions taken by federal agencies do not interfere with a state's plans to attain and maintain national standards for air quality.

Established under the Clean Air Act (section 176(c)(4)), the General Conformity rule plays an important role in helping states improve air quality in those areas that do not meet the NAAQS. Under the General Conformity rule, federal agencies must work with state and local governments in a nonattainment or maintenance area to ensure that federal actions conform to the air quality plans established in the applicable state or tribal implementation plan. The overall purpose of the General Conformity rule is to ensure that:

- Federal activities do not cause or contribute to new violations of NAAQS;
- Actions do not worsen existing violations of the NAAQS; and
- Attainment of the NAAQS is not delayed.

The General Conformity process begins with an "applicability analysis," whereby it must be determined how and to what degree the Conformity Rules apply. According to USEPA's General Conformity Guidance: Questions and Answers (1994), before any approval is given for a Federal Action to go forward, the federal agency must apply the applicability requirements found at 40 CFR § 93.153 to the Federal Action and/or

determine on a pollutant-by-pollutant basis, whether a determination of General Conformity is required. During the applicability analysis, the federal agency determines the following:

- Whether the action will occur in a nonattainment or maintenance area;
- Whether one or more of the specific exemptions apply to the action;
- Whether the federal agency has included the action on its list of presumed-to-conform actions;
- Whether the total direct and indirect emissions are below or above the de minimis levels; and/or
- Where a facility has an emissions budget approved by the State or Tribe as part of the SIP or TIP, the federal agency determines that the emissions from the proposed action are within the budget.

The General Conformity Rule allows for exemptions for emissions that are not reasonably foreseeable, will not result in an increase in emissions, are below de minimis limits, are the result of emergency actions, are included in stationary source air permits, are for routine maintenance and repair of existing structures, or are included in a transportation conformity determination undertaken by Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) (40 CFR 93.153(c)).

A conformity determination would be required if the annual emissions of non-attainment pollutants generated by the Proposed Project were to exceed the General Conformity de minimis thresholds. The de minimis limits represent a level of emissions that the USEPA has determined will have only de minimis impacts to the air quality of an area and are thus exempted from the General Conformity Rule. If the overall predicted increase in emissions of a criteria pollutant due to a federal action in a nonattainment area exceeds the de minimis limits as shown in Table 2-5, the lead federal agency is required to make a conformity determination. As previously described, the Proposed Site is located in the San Bernardino County portion of the MDAB. Table 2-5 lists the attainment status for each criteria air pollutant and the De Minimis threshold based on the NAAQS designation and classification.

<b>Pollutant</b>	<b>Attainment Status</b>	<b>Classification</b>	<b>USEPA General Conformity Threshold (tons/year)</b>
VOC (O <sub>3</sub> precursor)	Nonattainment	Severe	25
NO <sub>x</sub> (O <sub>3</sub> precursor)	Nonattainment	Severe	25
PM <sub>10</sub>	Nonattainment	Moderate	100
PM <sub>2.5</sub>	Unclassified/Attainment	Maintenance	100
CO	Unclassified/Attainment	Maintenance	100
NO <sub>2</sub>	Unclassified/Attainment	N/A	100
SO <sub>2</sub>	Unclassified/Attainment	N/A	100

Source: USEPA 2020

### **2.3.2 Methodology**

Air quality impacts were assessed in accordance with methodologies recommended by the MDAQMD. Where criteria air pollutant quantification was required, emissions were modeled using the California Emissions Estimator Model (CalEEMod), version 2020.4.0. CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. Project construction- and operations-generated air pollutant emissions were calculated using CalEEMod model defaults for San Bernardino County as well as the detailed Project specifications contained in the Project Site Plan, traffic data provided by KOA Corporation (2021) and information provided by the Project proponent.

### **2.3.3 Impact Analysis**

#### **2.3.3.1 Project Construction-Generated Criteria Air Quality Emissions**

Construction-generated emissions are temporary and short term but have the potential to represent a significant air quality impact. Three basic sources of short-term emissions will be generated through construction of the Proposed Project: operation of the construction vehicles (i.e., excavators, trenchers, dump trucks), the creation of fugitive dust during clearing and grading, and the use of asphalt or other oil-based substances during paving activities. Construction activities such as excavation and grading operations, construction vehicle traffic, and wind blowing over exposed soils would generate exhaust emissions and fugitive particulate matter emissions that affect local air quality at various times during construction. Effects would be variable depending on the weather, soil conditions, the amount of activity taking place, and the nature of dust-control efforts.

Construction-generated emissions associated with the Proposed Project were calculated using the CARB-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. See Attachment A for more information regarding the construction assumptions, including construction equipment and duration, used in this analysis.

Predicted maximum daily and maximum annual construction-generated emissions for the Proposed Project are summarized in Table 2-6. Construction-generated emissions are short term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the MDAQMD's thresholds of significance. Construction of the Project will occur in two phases.

As shown in Table 2-5, Project construction would not exceed the MDAQMD threshold for construction during either Phase 1 or Phase 2.

<b>Table 2-6. Construction-Related Criteria Pollutant Emissions</b>						
<b>Construction Year</b>	<b>Pollutant (pounds per day)</b>					
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Phase 1 Construction</b>						
<b>Annual (Maximum Tons per Year)</b>						
Construction in Year One	0.5	2.2	3.6	0.00	0.2	0.2
Construction in Year Two	0.1	2.2	0.9	0.00	0.1	0.0
<i>MDAQMD Potentially Significant Impact Annual Threshold</i>	25	25	100	25	15	12
<b>Exceed MDAQMD Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Daily (Maximum Pounds per Day)</b>						
Construction in Year One	5.49	22.11	37.00	0.07	3.29	1.83
Construction in Year Two	5.34	21.55	36.33	0.06	2.25	1.56
<i>MDAQMD Potentially Significant Impact Daily Threshold</i>	137	137	548	137	82	65
<b>Exceed MDAQMD Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Construction Year</b>	<b>Pollutant (pounds per day)</b>					
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Phase 2 Construction</b>						
<b>Annual (Maximum Tons per Year)</b>						
Construction in Year One	3.5	2.1	3.3	0.0	0.2	0.1
Construction in Year Two	0.1	0.5	0.8	0.0	0.0	0.0
<i>MDAQMD Potentially Significant Impact Daily Threshold</i>	25	25	100	25	15	12
<b>Exceed MDAQMD Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Daily (Maximum Pounds per Day)</b>						
Construction in Year One	3.61	20.32	33.14	0.05	3.29	1.83
Construction in Year Two	3.52	20.11	32.94	0.05	1.64	1.36
<i>MDAQMD Potentially Significant Impact Daily Threshold</i>	137	137	548	137	82	65

<b>Table 2-6. Construction-Related Criteria Pollutant Emissions</b>						
<b>Construction Year</b>	<b>Pollutant (pounds per day)</b>					
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Exceed MDAQMD Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Appendix A for Model Data Outputs.

Notes: Emission reduction/credits for construction emissions are applied based on the required implementation of MDAQMD Rule 403. The specific Rule 403 measures applied in CalEEMod include the following: sweeping/cleaning adjacent roadway access areas daily; water exposed surfaces daily; and limit speeds on unpaved roads to 15 miles per hour. *Daily construction emissions taken from the season (summer or winter) with the highest output.*

As shown in Table 2-6, emissions generated during either phase of Project construction would not exceed the MDAQMD’s thresholds of significance. Therefore, criteria pollutant emissions generated during Project construction would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard.

**2.3.3.2 USEPA Conformity Determination Thresholds**

As previously described, the Project Site is located in the San Bernardino County portion of the MDAB and is designated as a nonattainment area for the O<sub>3</sub> precursors, VOC (ROG) and NO<sub>x</sub>, as well as PM<sub>10</sub>. Emissions generated during Project construction would be short term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the Conformity Determination thresholds.



<b>Table 2-7. Implementation-Related Emissions (USEPA Conformity Determination Analysis)</b>						
<b>Construction Year</b>	<b>Pollutant (tons per year)</b>					
	<b>VOC (ROG)</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Phase 1 Construction</b>						
Construction in Year One	0.52	2.24	3.65	0.00	0.24	0.17
Construction in Year Two	0.13	2.24	0.89	0.00	0.06	0.04
<b>Phase 2 Construction</b>						
Construction in Year One	3.5	2.06	3.32	0.0	0.18	0.15
Construction in Year Two	0.09	0.51	0.83	0.0	0.04	0.03
<i>USEPA Conformity Determination Thresholds (40 CFR 93.153)</i>	25	25	100	100	100	100
<b>Exceed USEPA Conformity Determination Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Attachment A for Model Data Outputs.

Notes: Emission reduction/credits for construction were applied based on the required implementation of Best Management Practices that must be implemented during Project construction; such as limiting vehicle speeds on/and the watering of unpaved roads.

As shown in Table 2-7, emissions from implementation of the Proposed Project do not exceed the USEPA Conformity Determination thresholds for the region.

### **Project Operational Criteria Air Quality Emissions**

Implementation of the Project would result in low to moderate quantities of long-term operational emissions of criteria air pollutants. Project-generated increases in emissions would be predominantly associated with area and mobile source emissions.

The MDAQMD's (2016) *California Environmental Quality Act (CEQA) And Federal Conformity Guidelines* identifies both annual and daily operational significance thresholds for ROG, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational-generated criteria air pollutant emissions associated with the Proposed Project were calculated using CalEEMod. Predicted maximum annual and daily operational-generated emissions of criteria air pollutants for the Project are summarized in Table 2-8.

<b>Table 2-8. Operational-Related Emissions</b>						
<b>Operations</b>	<b>Maximum Pollutants (pounds per day)</b>					
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Annual (Maximum Tons per Year)</b>						
Area Source	0.2	0.0	1.3	0.0	0.0	0.0
Energy Use	0.0	0.2	0.1	0.0	0.0	0.0
Mobile Source	0.3	0.3	1.9	0.0	0.4	0.1
<b>Total</b>	<b>0.5</b>	<b>0.5</b>	<b>3.3</b>	<b>0.0</b>	<b>0.4</b>	<b>0.1</b>
<i>MDAQMD Annual Significance Threshold</i>	<i>25</i>	<i>25</i>	<i>100</i>	<i>25</i>	<i>15</i>	<i>12</i>
<b>Exceed MDAQMD Annual Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Daily (Maximum Pounds per Day)</b>						
Area Source	1.49	0.16	14.12	0.00	0.08	0.08
Energy Use	0.11	0.95	0.49	0.00	0.08	0.07
Mobile Source	1.67	1.55	11.12	0.02	2.00	0.54
<b>Total</b>	<b>3.28</b>	<b>2.66</b>	<b>25.74</b>	<b>0.02</b>	<b>2.15</b>	<b>0.69</b>
<i>MDAQMD Daily Significance Threshold</i>	<i>137</i>	<i>137</i>	<i>548</i>	<i>137</i>	<i>82</i>	<i>65</i>
<b>Exceed MDAQMD Daily Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Attachment A for Model Data Outputs.

As indicated in Table 2-8, operational-generated emissions would not exceed MDAQMD annual or daily significance thresholds.

### **2.3.3.3 USEPA Conformity Determination Thresholds**

As previously stated, operational related emissions associated with the Proposed Project were calculated using the CalEEMod computer program. Operational air pollution impacts were based on model defaults as well as information provided by the Project proponent. Once Project construction is complete the main operational emission sources associated with the Proposed Project would consist of mobile sources associated with employee and resident average daily trips. Long-term operational emissions attributable to the Project are identified in Table 2-9 and compared to the appropriate Conformity Determination thresholds.

<b>Table 2-9. Operational-Related Emissions (USEPA Conformity Determination Analysis)</b>						
<b>Emission Source</b>	<b>Pollutant (tons per year)</b>					
	<b>VOC (ROG)</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Area	0.2	0.0	1.3	0.0	0.0	0.0
Energy	0.0	0.2	0.1	0.0	0.0	0.0
Mobile	0.3	0.3	1.9	0.0	0.4	0.1
<b>Total:</b>	<b>0.5</b>	<b>0.5</b>	<b>3.3</b>	<b>0.0</b>	<b>0.4</b>	<b>0.1</b>
<i>EPA Conformity Determination Thresholds (40 CFR 93.153)</i>	25	25	100	100	100	100
<b>Exceed EPA Conformity Determination Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Attachment A for Model Data Outputs.

As indicated in Table 2-9, operational emissions would not exceed the USEPA Conformity Determination thresholds.

### **Conflict with MDAQMD Air Quality Attainment Plans**

The MDAQMD is subject to several air quality attainment plans. As explained previously, the air basin is in nonattainment of state and federal O<sub>3</sub> and PM<sub>10</sub> standards. As such, the air basin promulgates rules and regulations aimed at reducing emissions of O<sub>3</sub> and PM<sub>10</sub> within the air basin. The MDAQMD has in place Reasonably Available Control Technology (RACT) requirements and emission rules for the majority of emission sources; published in several different regulatory documents. The most recent RACT requirements were adopted in 2015. As previously described, a project conforms with the MDAQMD Attainment Plans if it complies with all applicable district rules and regulations, complies with all proposed control measures from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). A project is nonconforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. Conformity with growth forecasts can be established by demonstrating that the Project is consistent with the land use plan that was used to generate the growth forecast.

The MDAQMD Reasonable Progress/ Rate of Progress Plan is one of the earliest MDAQMD planning documents containing regulations applicable to the Proposed Project. The plan includes requirements for demonstrating reasonable further progress for federal O<sub>3</sub> standards. Attainment of milestone goals for O<sub>3</sub> reduction can be demonstrated through ROG and NO<sub>x</sub> reductions. Stationary control measures for internal combustion engine emissions of ROG and NO<sub>x</sub> and reduced ROG/VOC content of architectural coatings must be complied with during Project construction. Furthermore, Project construction equipment must comply with applicable state heavy duty diesel equipment emission standards and during operation,

lawn and garden utility equipment must meet certain emission standards. Compliance with these measures is required by law, as such, the Project would not conflict with this plan.

The Mojave Desert Planning Area Federal Particulate Matter (PM<sub>10</sub>) Attainment Plan (1995) includes control measures which are applicable to the Proposed Project; namely construction dust control measures. Several MDAQMD rules which have been adopted over the years apply to the Project. Rule 403 – Fugitive Dust prohibits visible dust beyond the property line of the emission source, requires “every reasonable precaution” to minimize fugitive dust emissions and prevent trackout of materials onto public roadways, and prohibits greater than 100 micrograms per cubic meter (µg/m<sup>3</sup>) difference between upwind and downwind particulate concentrations. Rule 402 prohibits nuisance due to air quality contaminants and Rule 401 limits visibility of fugitive dust to less than No. 1 on the Ringlemann Chart (i.e., 20 percent opacity). The Project must comply with all applicable rules and control measures, and as such would be consistent with the emission-reduction goals of the MDAQMD Attainment Plans.

As previously discussed, the Project Site was originally zoned for Open Space and Active Open Space in the 2018 OTSP. However, on June 16, 2021 the OTSP was amended to re-designate the Project Site to Medium Density Residential (Ordinance No. 2420). Homeless and emergency shelters are currently permitted in the Commercial (C-1 only) zone, and conditionally permitted within the Mixed Density, Medium Density and High-Density Residential zones. Therefore, the Proposed Project is consistent with the growth forecasts used to inform MDAQMD air quality planning since it is consistent with the City's land use designation for the Project Site, *Medium Density Residential*.

The Project would be consistent with the emission-reduction goals of the MDAQMD Attainment Plans.

### **Exposure of Sensitive Receptors to Toxic Air Contaminants**

Sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. CARB has identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, athletes, and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis.

The nearest sensitive receptors to the Project Site are the single-family residences located directly adjacent to the Project boundary to the southwest and the community park located directly adjacent to the southeast (Figure 1-2).

### ***Construction-Generated Air Contaminants***

Construction-related activities would result in temporary, short-term Proposed Project-generated emissions of diesel particulate matter (DPM), ROG, NO<sub>x</sub>, CO, and PM<sub>10</sub> from the exhaust of off-road, heavy-duty diesel equipment for site preparation (e.g., clearing, grading); soil hauling truck traffic; paving; and other miscellaneous activities. The portion of the MDAB which encompasses the Project vicinity is designated as a nonattainment area for O<sub>3</sub> and PM<sub>10</sub> under both federal and state standards (CARB 2019). Thus, existing O<sub>3</sub> and PM<sub>10</sub> levels in the MDAB are at unhealthy levels during certain periods. However, as

shown in Table 2-5, the Project would not exceed the MDAQMD emission thresholds for either of the two construction phases.

The health effects associated with O<sub>3</sub> are generally associated with reduced lung function. Because the Project would not involve construction activities that would result in O<sub>3</sub> precursor emissions (ROG or NO<sub>x</sub>) in excess of the MDAQMD thresholds, the Project is not anticipated to substantially contribute to regional O<sub>3</sub> concentrations and the associated health impacts.

CO tends to be a localized impact associated with congested intersections. In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. The Project would not involve construction activities that would result in CO emissions in excess of the MDAQMD thresholds. Thus, the Project's CO emissions would not contribute to the health effects associated with this pollutant.

PM<sub>10</sub> and PM<sub>2.5</sub> contain microscopic solids or liquid droplets that are so small that they can get deep into the lungs and cause serious health problems. PM exposure has been linked to a variety of problems, including premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing. For construction activity, DPM is the primary toxic air contaminant (TAC) of concern. The potential cancer risk from the inhalation of DPM outweighs the potential for all other health impacts (i.e., non-cancer chronic risk, short-term acute risk) and health impacts from other TACs. Based on the emission modeling conducted, the maximum onsite construction-related daily emissions of exhaust PM<sub>10</sub>, considered a surrogate for DPM and includes emissions of exhaust PM<sub>2.5</sub>, would be 1.34 pounds per day in the first year of construction and 1.29 pounds per day in the second year that construction takes place (see Attachment A). PM<sub>10</sub> exhaust is considered a surrogate for DPM as all diesel exhaust is considered to be DPM. As with O<sub>3</sub> and NO<sub>x</sub>, the Project would not generate emissions of PM<sub>10</sub> or PM<sub>2.5</sub> that would exceed the significance thresholds. Accordingly, the Project's PM<sub>10</sub> and PM<sub>2.5</sub> emissions are not expected to cause any increase in related regional health effects for these pollutants.

In summary, the Project would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants.

### ***Operational Air Contaminants***

Operation of the Proposed Project would not result in the development of any substantial sources of air toxics. There are no stationary sources associated with the operations of the Project. The Project would not attract heavy-duty trucks, a substantial source of DPM emissions, that spend long periods queuing and idling at the site. Therefore, the Project would not be a significant source of TACs during operations.

**Carbon Monoxide Hot Spots**

It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Concentrations of CO are a direct function of the number of vehicles, length of delay, and traffic flow conditions. Under certain meteorological conditions, CO concentrations close to congested intersections that experience high levels of traffic and elevated background concentrations may reach unhealthy levels, affecting nearby sensitive receptors. Given the high traffic volume potential, areas of high CO concentrations, or "hot spots," are typically associated with intersections that are projected to operate at unacceptable levels of service during the peak commute hours. It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. However, transport of this criteria pollutant is extremely limited, and CO disperses rapidly with distance from the source under normal meteorological conditions. Furthermore, vehicle emissions standards have become increasingly more stringent in the last 20 years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the MDAB is designated as in attainment. Detailed modeling of Project-specific CO "hot spots" is not necessary and thus this potential impact is addressed qualitatively.

A CO "hot spot" would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur. The analysis prepared for CO attainment in the South Coast Air Quality Management District's (SCAQMD's) *1992 Federal Attainment Plan for Carbon Monoxide* in Los Angeles County and a Modeling and Attainment Demonstration prepared by the SCAQMD as part of the 2003 AQMP can be used to demonstrate the potential for CO exceedances of these standards. The SCAQMD is the air pollution control officer for much of southern California. The SCAQMD conducted a CO hot spot analysis as part of the 1992 CO Federal Attainment Plan at four busy intersections in Los Angeles County during the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood), Wilshire Boulevard and Veteran Avenue (Westwood), Sunset Boulevard and Highland Avenue (Hollywood), and La Cienega Boulevard and Century Boulevard (Inglewood). The busiest intersection evaluated was at Wilshire Boulevard and Veteran Avenue, which has a traffic volume of approximately 100,000 vehicles per day. Despite this level of traffic, the CO analysis concluded that there was no violation of CO standards (SCAQMD 1992). In order to establish a more accurate record of baseline CO concentrations affecting the Los Angeles, a CO "hot spot" analysis was conducted in 2003 at the same four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards. The highest one-hour concentration was measured at 4.6 ppm at Wilshire Boulevard and Veteran Avenue and the highest eight-hour concentration was measured at 8.4 ppm at Long Beach Boulevard and Imperial Highway. Thus, there was no violation of CO standards.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD), the air pollution control officer for the San Francisco Bay Area, concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more

than 44,000 vehicles per hour or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact.

The Proposed Project is anticipated to generate a maximum of 637 vehicle trips per day (KOA 2021). However, these estimates are considered very conservative for a service facility for homeless. Nonetheless, the Proposed Project would not result in traffic volumes at any intersection of more than 100,000 vehicles per day, and there is no likelihood of the Project traffic exceeding CO values.

### **Odors**

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another. It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air. When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

During construction, the Proposed Project presents the potential for generation of objectionable odors in the form of diesel exhaust in the immediate vicinity of the site. However, these emissions are short-term in nature and will rapidly dissipate and be diluted by the atmosphere downwind of the emission sources. Additionally, odors would be localized and generally confined to the construction area. Given that there are no natural topographic features (e.g., canyon walls) or manmade structures (e.g., tall buildings) that would potential trap such emissions, construction-related odors would occur at magnitudes that would not affect substantial numbers of people.

CARB's *Air Quality and Land Use Handbook* (2005) identifies the sources of the most common operational odor complaints received by local air districts. Typical sources include facilities such as sewage treatment

plants, landfills, recycling facilities, petroleum refineries, and livestock operations. The Project does not contain any of the land uses identified as typically associated with emissions of objectionable odors.

## **3.0 GREENHOUSE GAS EMISSIONS**

### **3.1 Greenhouse Gas Setting**

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead trapped, resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth. Without the greenhouse effect, the earth would not be able to support life as we know it.

Prominent GHGs contributing to the greenhouse effect are CO<sub>2</sub>, methane (CH<sub>4</sub>), and N<sub>2</sub>O. Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Fluorinated gases include chlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride; however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. It is "extremely likely" that more than half of the observed increase in global average surface temperature from 1951 to 2010 was caused by the anthropogenic increase in GHG concentrations and other anthropogenic factors together (Intergovernmental Panel on Climate Change [IPCC] 2014).

Table 3-1 describes the primary GHGs attributed to global climate change, including their physical properties, primary sources, and contributions to the greenhouse effect.

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. CH<sub>4</sub> traps over 25 times more heat per molecule than CO<sub>2</sub>, and N<sub>2</sub>O absorbs 298 times more heat per molecule than CO<sub>2</sub> (IPCC 2014). Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO<sub>2</sub>e), which weight each gas by its global warming potential. Expressing GHG emissions in CO<sub>2</sub>e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO<sub>2</sub> were being emitted.

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed



around the globe. Although the exact lifetime of any particular GHG molecule is dependent on multiple variables and cannot be pinpointed, it is understood that more CO<sub>2</sub> is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms. Of the total annual human-caused CO<sub>2</sub> emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused CO<sub>2</sub> emissions remains stored in the atmosphere (IPCC 2013).

<b>Table 3-1. Greenhouse Gases</b>	
<b>Greenhouse Gas</b>	<b>Description</b>
CO <sub>2</sub>	Carbon dioxide is a colorless, odorless gas. CO <sub>2</sub> is emitted in a number of ways, both naturally and through human activities. The largest source of CO <sub>2</sub> emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO <sub>2</sub> emissions. The atmospheric lifetime of CO <sub>2</sub> is variable because it is so readily exchanged in the atmosphere. <sup>1</sup>
CH <sub>4</sub>	Methane is a colorless, odorless gas and is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (intestinal fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of CH <sub>4</sub> to the atmosphere. Natural sources of CH <sub>4</sub> include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. The atmospheric lifetime of CH <sub>4</sub> is about 12 years. <sup>2</sup>
N <sub>2</sub> O	Nitrous oxide is a clear, colorless gas with a slightly sweet odor. Nitrous oxide is produced by both natural and human-related sources. Primary human-related sources of N <sub>2</sub> O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N <sub>2</sub> O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N <sub>2</sub> O is approximately 120 years. <sup>3</sup>

Sources: <sup>1</sup>USEPA 2016a, <sup>2</sup>USEPA 2016b, <sup>3</sup>USEPA 2016c

The quantity of GHGs that it takes to ultimately result in climate change is not precisely known; suffice it to say the quantity is enormous, and no single project alone would measurably contribute to a noticeable incremental change in the global average temperature or to global, local, or microclimates. From the standpoint of CEQA, GHG impacts to global climate change are inherently cumulative.

### **3.1.1 Sources of Greenhouse Gas Emissions**

In 2021, CARB released the 2021 edition of the California GHG inventory covering calendar year 2019 emissions. In 2019, California emitted 418.2 million gross metric tons of CO<sub>2</sub>e including from imported electricity. Combustion of fossil fuel in the transportation sector was the single largest source of California’s GHG emissions in 2019, accounting for approximately 40 percent of total GHG emissions in the State. When emissions from extracting, refining and moving transportation fuels in California are

included, transportation is responsible for over 50 percent of statewide emissions in 2019. Continuing the downward trend from 2018, transportation emissions decreased 3.5 million metric tons of CO<sub>2</sub>e in 2019, only being outpaced by electricity, which reduced emissions by 4.3 million metric tons of CO<sub>2</sub>e in 2019. Emissions from the electricity sector account for 14 percent of the inventory and have shown a substantial decrease in 2019 due to increases in renewables. California's industrial sector accounts for the second largest source of the State's GHG emissions in 2019, accounting for 21 percent (CARB 2021b).

## **3.2 Regulatory Framework**

### **3.2.1 State**

#### **3.2.1.1 Executive Order S-3-05**

Executive Order (EO) S-3-05, signed by Governor Arnold Schwarzenegger in 2005, proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce the Sierra Nevada snowpack, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To combat those concerns, the EO established total GHG emission targets for the state. Specifically, emissions are to be reduced to the 2000 level by 2010, the 1990 level by 2020, and to 80 percent below the 1990 level by 2050.

While dated, this executive order remains relevant because a more recent California Appellate Court decision, *Cleveland National Forest Foundation v. San Diego Association of Governments* (November 24, 2014) 231 Cal.App.4th 1056, examined whether it should be viewed as having the equivalent force of a legislative mandate for specific emissions reductions. While the California Supreme Court ruled that the San Diego Association of Governments did not abuse its discretion by declining "to adopt the 2050 goal as a measure of significance in light of the fact that the EO does not specify any plan or implementation measures to achieve its goal", the decision also recognized that the goal of a 40-percent reduction in 1990 GHG levels by 2030 is "widely acknowledged" as a "necessary interim target to ensure that California meets its longer-range goal of reducing greenhouse gas emissions 80 percent below 1990 levels by the year 2050."

#### **3.2.1.2 Assembly Bill 32 Climate Change Scoping Plan and Updates**

In 2006, the California legislature passed Assembly Bill (AB) 32 (Health and Safety Code § 38500 et seq., or AB 32), also known as the Global Warming Solutions Act. AB 32 requires CARB to design and implement feasible and cost-effective emission limits, regulations, and other measures, such that statewide GHG emissions are reduced to 1990 levels by 2020 (representing a 25 percent reduction in emissions). Pursuant to AB 32, CARB adopted a Scoping Plan in December 2008, which outlines measures to meet the 2020 GHG reduction goals. California is on track to meet or exceed the target of reducing GHG emissions to 1990 levels by the end of 2020.

The Scoping Plan is required by AB 32 to be updated at least every five years. The latest update, the 2017 Scoping Plan Update, addresses the 2030 target established by Senate Bill (SB) 32 as discussed below and establishes a proposed framework of action for California to meet a 40 percent reduction in GHG

emissions by 2030 compared to 1990 levels. The key programs that the Scoping Plan Update builds on include increasing the use of renewable energy in the state, the Cap-and-Trade Regulation, the Low Carbon Fuel Standard, and reduction of methane emissions from agricultural and other wastes.

### **3.2.1.3 Senate Bill 32 and Assembly Bill 197 of 2016**

In August 2016, Governor Brown signed SB 32 and AB 197, which serve to extend California's GHG reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include § 38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by Executive Order (EO) B-30-15 for 2030, which set the next interim step in the State's continuing efforts to pursue the long-term target expressed in EOs S-3-05 and B-30-15 of 80 percent below 1990 emissions levels by 2050.

### **3.2.1.4 Senate Bill 100 of 2018**

In 2018, SB 100 was signed by Governor Brown, codifying a goal of 60 percent renewable procurement by 2030 and 100 percent by 2045 Renewables Portfolio Standard.

### **3.2.1.5 2019 Building Energy Efficiency Standards for Residential and Nonresidential Buildings**

The Building and Efficiency Standards (Energy Standards) were first adopted and put into effect in 1978 and have been updated periodically in the intervening years. These standards are a unique California asset that have placed the State on the forefront of energy efficiency, sustainability, energy independence and climate change issues. The 2019 Building Energy Efficiency Standards improve upon the 2016 Energy Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The 2019 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. The 2019 standards are a major step toward meeting Zero Net Energy. The most significant efficiency improvement to the residential Standards includes the introduction of photovoltaic into the perspective package, improvements for attics, walls, water heating and lighting. Buildings permitted on or after January 1, 2020, must comply with the 2019 Standards.

In 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CalGreen Building Standard (CalGreen) and establishes voluntary and mandatory standards pertaining to the planning and design of sustainable site development, energy efficiency, water conservation, material conservation, and interior air quality. Like Part 6 of Title 24, the CalGreen standards are periodically updated, with increasing energy savings and efficiencies associated with each code update. CalGreen contains voluntary "Tier 1" and "Tier 2" standards that are not mandatory statewide but could be required by a City or County. These are 'reach' standards that can be adopted by local jurisdictions and may be incorporated as mandatory standards in future code cycles.

### **3.2.2 Local**

#### **3.2.2.1 Mojave Desert Air Quality Management District**

Under CEQA, the MDAQMD is an expert commenting agency on air quality and related matters within its jurisdiction or impacting on its jurisdiction. The MDAQMD provides guidelines to assessing the significance of project specific GHG emissions and offers both daily and annual thresholds for GHG emissions.

#### **3.2.2.2 City of Victorville**

The City of Victorville adopted a community-wide climate action plan (CAP) in September 2015. A climate action plan is a comprehensive strategy for a community to reduce emissions of GHGs, which, according to scientific consensus, are primarily responsible for causing climate change. The 2015 CAP presents GHG inventories, identifies the effectiveness of California initiatives to reduce GHG emissions, and identifies local measures to reduce GHG emissions and achieve a City-identified GHG reduction target. The City participated in the San Bernardino County Regional GHG Reduction Plan, which presents the collective results of all local efforts Countywide to reduce GHG emissions consistent with statewide GHG targets expressed in the AB 32 Scoping. The City of Victorville used the technical information within the County Regional GHG Reduction Plan to develop the City CAP. The CAP builds on this regional work and refines it to provide City-specific information and to develop the local implementation plan for Victorville-centric GHG reduction measures. The CAP identifies how the GHG reduction measures will be implemented and monitored by the City to ensure that progress is being made toward the GHG reduction target.

Additionally, the following OTSP policies and mitigation measures are required for all development projects within the City of Victorville OTSP area:

**Policy 7-6:** (Pedestrian & Bicycle Network Policies) Promote bicycle and pedestrian activity in the Old Town area by providing marked and dedicated facilities and encouraging travel along roadways with lower traffic volumes. Additionally, provide safe, attractive, and secure bicycle parking facilities within the Old Town core to promote this travel choice.

**Policy 7-8:** (Transit System Policies) As development applications and improvements are contemplated throughout the Specific Plan area, configure roadways and buildings to support transit by providing appropriate curb-returns and bus turnouts in the study area. Consider potential shuttle opportunities, as funding is available, to connect the Old Town core to major employment centers in the area.

**MM 8a-2:** All future development within the OTSP shall include both of the following energy efficiency measures to be applied to the development of new multi-family, commercial, mixed use, industrial and public buildings or a building being renovated where more than 50 percent of the structure would be replaced:

### **Requirement 1**

The applicant shall be subject to the provisions of the City of Victorville Climate Action Plan (CAP). The applicant shall submit the required CAP screening table demonstrating 45-points or greater of Greenhouse Gas Reduction Measures with the appropriate entitlement application submittal.

### **Requirement 2**

Provide a renewable energy generation (solar, wind, etc.) capable of producing at least 50 percent of the building's total energy demand.

*Timing/Implementation:* Prior to the issuance of a building permit

*Enforcement/Monitoring:* City of Victorville Development Department

## **3.3 Greenhouse Gas Emissions Impact Assessment**

### **3.3.1 Thresholds of Significance**

The impact analysis provided below is based on the following CEQA Guidelines Appendix G thresholds of significance. The Project would result in a significant impact to greenhouse gas emissions if it would:

- 1) Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or
- 2) Conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

#### **3.3.1.1 Mojave Desert Air Quality Management District Thresholds**

The MDAQMD's (2016) California Environmental Quality Act (CEQA) And Federal Conformity Guidelines identifies both annual and daily construction significance thresholds for GHG emissions. The Proposed Project is compared to the MDAQMD annual threshold of 100,000 metric tons of CO<sub>2</sub>e annually as well as the MDAQMD daily threshold of 578,000 pounds of CO<sub>2</sub>e daily.

#### **3.3.1.2 City of Victorville Climate Action Plan**

The City of Victorville CAP established a GHG emissions reduction target for the year 2020 that was 29 percent below the projected year 2020 emission levels. The GHG Plan is consistent with the AB 32 Scoping Plan and sets the City on a path to achieve a more substantial long-term reduction in the post-2020 period. Achieving this level of emissions would ensure that the contribution to GHG emissions from activities covered by the Climate Action Plan would not be cumulatively considerable. Applicants are required to use the Victorville CAP GHG Emissions Screening Tables as a tool to assist with calculating GHG reduction measures and the determination of a significance finding. Projects that garner 45 or more points on the Screening Tables are considered less than significant. The point system was devised to ensure project compliance with the reduction measures in the CAP such that the GHG emissions from new

development, when considered together with those from existing development, would allow the City to support longer-term reductions in GHG emissions beyond year 2020.

### **3.3.2 Methodology**

GHG-related impacts were assessed in accordance with methodologies recommended by the MDAQMD. Where GHG emission quantification was required, emissions were modeled using the CalEEMod, version 2020.4.0. CalEEMod is a statewide land use emissions computer model designed to quantify potential GHG emissions associated with both construction and operations from a variety of land use projects. Project construction- and operation-generated GHG emissions were calculated using CalEEMod model defaults for San Bernardino County as well as the detailed Project specifications contained in the Project Site Plan and information provided by the Project proponent.

### **3.3.3 Impact Analysis**

#### **3.3.3.1 Contribution of Greenhouse Gas Emissions**

The MDAQMD's (2016) *California Environmental Quality Act (CEQA) And Federal Conformity Guidelines* identifies both annual and daily construction significance thresholds for GHG emissions. The Proposed Project is compared to the MDAQMD annual threshold of 100,000 metric tons of CO<sub>2</sub>e annually as well as the MDAQMD daily threshold of 578,000 pounds of CO<sub>2</sub>e daily.

#### **Construction**

Construction-related activities that would generate GHGs include worker commute trips, haul trucks carrying supplies and materials to and from the Project Site, and off-road construction equipment (e.g., dozers, loaders, excavators). Table 3-2 illustrates the specific construction-generated GHG emissions that would result from construction of the Project.

<b>Table 3-2. Construction-Related Greenhouse Gas Emissions</b>	
<b>Emissions Source</b>	<b>CO<sub>2</sub>e (Metric Tons/ Year)</b>
<b>Phase 1 Construction</b>	
<b>Annual (Maximum Tons per Year)</b>	
Construction in Year One	40 tons
Construction in Year Two	1,074 tons
<i>MDAQMD Annual Threshold</i>	<i>100,000 metric tons/year</i>
<b>Exceed Annual Threshold?</b>	<b>No</b>
<b>Daily (Maximum Pounds per Day)</b>	
Construction in Year One	3,865 pounds
Construction in Year Two	12,615 pounds
<i>MDAQMD Daily Threshold</i>	<i>548,000 pounds/day</i>
<b>Exceed Daily Threshold?</b>	<b>No</b>
<b>Phase 2 Construction</b>	
<b>Annual (Maximum Tons per Year)</b>	
Construction in Year One	682 tons
Construction in Year Two	241 tons
<i>MDAQMD Annual Threshold</i>	<i>100,000 metric tons/year</i>
<b>Exceed Annual Threshold?</b>	<b>No</b>
<b>Daily (Maximum Pounds per Day)</b>	
Construction in Year One	9,351 pounds
Construction in Year Two	9,209 pounds
<i>MDAQMD Annual Threshold</i>	<i>548,000 pounds/day</i>
<b>Exceed Annual Threshold?</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Attachment A for Model Data Outputs.

As shown in Table 3-2, construction-generated emissions would not exceed MDAQMD significance thresholds.

## Operations

Operation of the Project would result in GHG emissions associated with vehicle trips generated by residents and employees, in addition to equipment usage associated with ongoing operations, maintenance, repair, and security. Construction emissions have been amortized over the estimated 50-year life of the Project. Resultant emissions have been added to the operational totals identified in Table 3-3, which summarizes all the direct and indirect annual GHG emissions level associated with the Project.

<b>Table 3-3. Operational Greenhouse Gas Emissions</b>	
<b>Emissions Source</b>	<b>CO<sub>2</sub>e (Metric Tons/ Year)</b>
<b><i>Annual (Maximum Tons per Year)</i></b>	
Construction Emissions (amortized over the 50-year life of the Project)	21 tons
Area Source	2 tons
Energy	378 tons
Mobile	340 tons
Waste	99 tons
Water	64 tons
<b>Total</b>	<b>904 tons</b>
<i>MDAQMD Annual Threshold</i>	<i>100,000 metric tons/year</i>
<b>Exceed Annual Threshold?</b>	<b>No</b>
<b><i>Summer Daily (Maximum Pounds per Day)</i></b>	
Construction Emissions (amortized over the 50-year life of the Project)	232 pounds
Area Source	26 pounds
Energy	1,197 pounds
Mobile	2,179 pounds
Waste	540 pounds
Water	340 pounds
<b>Total</b>	<b>4,282 pounds</b>
<i>MDAQMD Daily Threshold</i>	<i>548,000 pounds/day</i>
<b>Exceed Daily Threshold?</b>	<b>No</b>



<b>Table 3-3. Operational Greenhouse Gas Emissions</b>	
<b>Emissions Source</b>	<b>CO<sub>2</sub>e (Metric Tons/ Year)</b>
<b><i>Winter Daily (Maximum Pounds per Day)</i></b>	
Construction Emissions (amortized over the 50-year life of the Project)	228 pounds
Area Source (landscaping, hearth)	26 pounds
Energy	1,197 pounds
Mobile	2,032 pounds
Waste	540 pounds
Water	340 pounds
<b>Total</b>	<b>4,135 pounds</b>
<i>MDAQMD Daily Threshold</i>	<i>548,000 pounds/day</i>
<b>Exceed Daily Threshold?</b>	<b>No</b>

Source: CalEEMod version 2020.4.0. Refer to Attachment A for Model Data Outputs.

Notes: Emission estimates account for more than 506 permanent resident and employee trips daily.

As shown in Table 3-3, operational-generated emissions would not exceed MDAQMD significance thresholds.

### ***3.3.3.2 Conflict with any Applicable Plan, Policy, or Regulation of an Agency Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases***

#### **City of Victorville GHG Emissions Screening Table**

As previously stated, the purpose of the City GHG Emissions Screening Tables is to provide guidance in measuring the reduction of GHG emissions attributable to certain design and construction measures incorporated into development projects. The Screening Table assigns points for each option incorporated into a project. The point values correspond to the minimum emissions reduction expected from each feature and a minimum of 45 Screening Table Points must be met for each project. The menu of features allows maximum flexibility and options for how development projects can implement the GHG reduction measures.

Table 3-4 presents a list of the GHG reduction measure options and the associated point values in the GHG Screening Table.

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
<b>Reduction Measure PS E1: Residential Energy Efficiency</b>			
<b>Building Envelope</b>			
Insulation	○ 2008 Baseline (walls R-13:, roof/attic: R-30)	○ 0 points	
	○ Modestly Enhanced Insulation (walls R-13:, roof/attic: R-38)	○ 12 points	
	○ Enhanced Insulation (rigid wall insulation R-13, roof/attic: R-38)	○ 15 points	
	○ Greatly Enhanced Insulation (spray foam wall insulated walls R-15 or higher, roof/attic R-38 or higher)	○ 18 points	
Windows	○ 2008 Baseline Windows (0.57 U-factor, 0.4 solar heat gain coefficient (SHGC))	○ 0 point	
	○ Modestly Enhanced Window Insulation (0.4 U-Factor, 0.32 SHGC)	○ 6 points	
	○ Enhanced Window Insulation (0.32 U-Factor, 0.25 SHGC)	○ 7 points	
	○ Greatly Enhanced Window Insulation (0.28 or less U-Factor, 0.22 or less SHGC)	○ 9 points	
Cool Roof	○ Modest Cool Roof (CRRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance)	○ 10 points	
	○ Enhanced Cool Roof(CRRRC Rated 0.2 aged solar reflectance, 0.75 thermal emittance)	○ 12 points	
	○ Greatly Enhanced Cool Roof (CRRRC Rated 0.35 aged solar reflectance, 0.75 thermal emittance)	○ 14 points	
Air Infiltration	○ Minimizing leaks in the building envelope is as important as the insulation properties of the building. Insulation does not work effectively if there is excess air leakage.	○ 0 points	
	○ Air barrier applied to exterior walls, caulking, and visual inspection such as the HERS Verified Quality Insulation Installation (QII or equivalent)	○ 10 points	
	○ Blower Door HERS Verified Envelope Leakage or equivalent	○ 8 points	
Thermal Storage of Building	○ Thermal storage is a design characteristic that helps keep a constant temperature in the building. Common thermal storage devices include strategically placed water filled columns, water storage tanks, and thick masonry walls.	○ 0 points	
	○ Modest Thermal Mass (10% of floor or 10% of walls: 12" or more thick exposed concrete or masonry. No permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	○ 2 points	
	○ Enhanced Thermal Mass (20% of floor or 20% of walls: 12" or more thick exposed concrete or masonry. No permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	○ 4 points	

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
<b>Indoor Space Efficiencies</b>			
Heating/ Cooling Distribution System	<ul style="list-style-type: none"> <li>○ Minimum Duct Insulation (R-4.2 required)</li> <li>○ Modest Duct insulation (R-6)</li> <li>○ Enhanced Duct Insulation (R-8)</li> <li>○ Distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent)</li> </ul>	<ul style="list-style-type: none"> <li>○ 0 points</li> <li>○ 7 points</li> <li>○ 8 points</li> <li>○ 12 points</li> </ul>	
Space Heating/ Cooling Equipment	<ul style="list-style-type: none"> <li>○ 2008 Minimum HVAC Efficiency (SEER 13/75% AFUE or 7.7 HSPF)</li> <li>○ Improved Efficiency HVAC (SEER 14/78% AFUE or 8 HSPF)</li> <li>○ High Efficiency HVAC (SEER 15/80% AFUE or 8.5 HSPF)</li> <li>○ Very High Efficiency HVAC (SEER 16/82% AFUE or 9 HSPF)</li> </ul>	<ul style="list-style-type: none"> <li>○ 0 points</li> <li>○ 4 points</li> <li>○ 7 points</li> <li>○ 9 points</li> </ul>	
Water Heaters	<ul style="list-style-type: none"> <li>○ 2008 Minimum Efficiency (0.57 Energy Factor)</li> <li>○ Improved Efficiency Water Heater (0.675 Energy Factor)</li> <li>○ High Efficiency Water Heater (0.72 Energy Factor)</li> <li>○ Very High Efficiency Water Heater (0.92 Energy Factor)</li> <li>○ Solar Pre-heat System (0.2 Net Solar Fraction)</li> <li>○ Enhanced Solar Pre-heat System (0.35 Net Solar Fraction)</li> </ul>	<ul style="list-style-type: none"> <li>○ 0 points</li> <li>○ 12 points</li> <li>○ 15 points</li> <li>○ 18 points</li> <li>○ 4 points</li> <li>○ 8 points</li> </ul>	
Daylighting	<ul style="list-style-type: none"> <li>○ Daylighting is the ability of each room within the building to provide outside light during the day reducing the need for artificial lighting during daylight hours.</li> <li>○ All peripheral rooms within the living space have at least one window (required)</li> <li>○ All rooms within the living space have daylight (through use of windows, solar tubes, skylights, etc.)</li> <li>○ All rooms daylighted</li> </ul>	<ul style="list-style-type: none"> <li>○ 0 points</li> <li>○ 0 points</li> <li>○ 1 point</li> <li>○ 2 points</li> </ul>	
Artificial Lighting	<ul style="list-style-type: none"> <li>○ 2008 Minimum (required)</li> <li>○ Efficient Lights (25% of in-unit fixtures considered high efficacy. High efficacy is defined as 40 lumens/watt for 15 watt or less fixtures; 50 lumens/watt for 15-40 watt fixtures, 60 lumens/watt for fixtures &gt;40watt)</li> <li>○ High Efficiency Lights (50% of in-unit fixtures are high efficacy)</li> <li>○ Very High Efficiency Lights (100% of in-unit fixtures are high efficacy)</li> </ul>	<ul style="list-style-type: none"> <li>○ 0 points</li> <li>○ 8 points</li> <li>○ 10 points</li> <li>○ 12 points</li> </ul>	
Appliances	<ul style="list-style-type: none"> <li>○ Energy Star Refrigerator (new)</li> <li>○ Energy Star Dish Washer (new)</li> <li>○ Energy Star Washing Machine (new)</li> </ul>	<ul style="list-style-type: none"> <li>○ 1 point</li> <li>○ 1 point</li> <li>○ 1 point</li> </ul>	

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
<b>Miscellaneous Residential Building Efficiencies</b>			
Building Placements	<ul style="list-style-type: none"> <li>○ North/South alignment of building or other building placement such that the orientation of the buildings optimizes natural heating, cooling, and lighting.</li> </ul>	<ul style="list-style-type: none"> <li>○ 5 points</li> </ul>	
Shading	<ul style="list-style-type: none"> <li>○ At least 90% of south-facing glazing will be shaded by vegetation or overhangs at noon on Jun 21st.</li> </ul>	<ul style="list-style-type: none"> <li>○ 4 points</li> </ul>	
Energy Star Homes	<ul style="list-style-type: none"> <li>○ EPA Energy Star for Homes (version 3 or above)</li> </ul>	<ul style="list-style-type: none"> <li>○ 25 points</li> </ul>	
Independent Energy Efficiency Calculations	<ul style="list-style-type: none"> <li>○ Provide point values based upon energy efficiency modeling of the Project. Note that engineering data will be required documenting the energy efficiency and point values based upon the proven efficiency beyond Title 24 Energy Efficiency Standards.</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	
Other	<ul style="list-style-type: none"> <li>○ This allows innovation by the applicant to provide design features that increases the energy efficiency of the project not provided in the table. Note that engineering data will be required documenting the energy efficiency of innovative designs and point values given based upon the proven efficiency beyond Title 24 Energy Efficiency Standards.</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	
Existing Residential Retrofits	<p>The applicant may wish to provide energy efficiency retrofit projects to existing residential dwelling units to further the point value of their project. Retrofitting existing residential dwelling units within the City is a key reduction measure that is needed to reach the reduction goal. The potential for an applicant to take advantage of this program will be decided on a case by case basis and must have the approval of the City Planning Department. The decision to allow applicants to ability to participate in this program will be evaluated based upon, but not limited to the following;</p> <ul style="list-style-type: none"> <li>○ Will the energy efficiency retrofit project benefit low income or disadvantaged residents?</li> <li>○ Does the energy efficiency retrofit project fit within the overall assumptions in reduction measures associated with existing residential retrofits?</li> <li>○ Does the energy efficiency retrofit project provide co-benefits important to the City?</li> <li>○ Point value will be determined based upon engineering and design criteria of the energy efficiency retrofit project.</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
<b>Reduction Measure PS E2: Residential Renewable Energy Generation</b>			
Photovoltaic	<p>Solar Photovoltaic panels installed on individual homes or in collective neighborhood arrangements such that the total power provided augments: Solar Ready Homes (sturdy roof and solar ready service panel)</p> <ul style="list-style-type: none"> <li>○ 10 percent of the power needs of the project</li> <li>○ 20 percent of the power needs of the project</li> <li>○ 30 percent of the power needs of the project</li> <li>○ 40 percent of the power needs of the project</li> <li>○ 50 percent of the power needs of the project</li> <li>○ 60 percent of the power needs of the project</li> <li>○ 70 percent of the power needs of the project</li> <li>○ 80 percent of the power needs of the project</li> <li>○ 90 percent of the power needs of the project</li> <li>○ 100 percent of the power needs of the project</li> </ul>	<ul style="list-style-type: none"> <li>○ 2 points</li> <li>○ 10 points</li> <li>○ 15 points</li> <li>○ 20 points</li> <li>○ 28 points</li> <li>○ 34 points</li> <li>○ 38 points</li> <li>○ 42 points</li> <li>○ 46 points</li> <li>○ 52 points</li> <li>○ 58 points</li> </ul>	
Wind turbines	<p>Some areas of the City lend themselves to wind turbine applications. Analysis of the area's capability to support wind turbines should be evaluated prior to choosing this feature. Individual wind turbines at homes or collective neighborhood arrangements of wind turbines such that the total power provided augments:</p> <ul style="list-style-type: none"> <li>○ 10 percent of the power needs of the project</li> <li>○ 20 percent of the power needs of the project</li> <li>○ 30 percent of the power needs of the project</li> <li>○ 40 percent of the power needs of the project</li> <li>○ 50 percent of the power needs of the project</li> <li>○ 60 percent of the power needs of the project</li> <li>○ 70 percent of the power needs of the project</li> <li>○ 80 percent of the power needs of the project</li> <li>○ 90 percent of the power needs of the project</li> <li>○ 100 percent of the power needs of the project</li> </ul>	<ul style="list-style-type: none"> <li>○ 10 points</li> <li>○ 15 points</li> <li>○ 20 points</li> <li>○ 28 points</li> <li>○ 35 points</li> <li>○ 38 points</li> <li>○ 42 points</li> <li>○ 46 points</li> <li>○ 52 points</li> <li>○ 58 points</li> </ul>	
Off-site Renewable Energy Projects	<ul style="list-style-type: none"> <li>○ The applicant may submit a proposal to supply an off-site renewable energy project such as renewable energy retrofits of existing homes that will help implement renewable energy within the City. These off-site renewable energy retrofit project proposals will be determined on a case by case basis and must be accompanied by a detailed plan that documents the quantity of renewable energy the proposal will generate. Point values will be determined based upon the energy generated by the proposal.</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
Other Renewable Energy Generation	<ul style="list-style-type: none"> <li>The applicant may have innovative designs or unique site circumstances (such as geothermal) that allow the project to generate electricity from renewable energy not provided in the table. The ability to supply other renewable energy and the point values allowed will be decided based upon engineering data documenting the ability to generate electricity.</li> </ul>	<ul style="list-style-type: none"> <li>TBD</li> </ul>	
<b>Reduction Measure P1 W1: Residential Water Conservation</b>			
<b>Irrigation and Landscaping</b>			
Water Efficient Landscaping	<ul style="list-style-type: none"> <li>Limit conventional turf to &lt; 50% of required landscape area</li> <li>Limit conventional turf to &lt; 25% of required landscape area</li> <li>No conventional turf (warm season turf to &lt; 50% of required landscape area and/or low water using plants are allowed)</li> <li>Only California Native Plants that requires no irrigation or some supplemental irrigation</li> </ul>	<ul style="list-style-type: none"> <li>0 points</li> <li>4 points</li> <li>6 points</li> <li>8 points</li> </ul>	
Water Efficient Irrigation System	<ul style="list-style-type: none"> <li>Low precipitation spray heads &lt; .75"/hr or drip irrigation</li> <li>Weather based irrigation control systems or moisture sensors (demonstrate 20% reduced water use)</li> </ul>	<ul style="list-style-type: none"> <li>2 points</li> <li>3 points</li> </ul>	
Recycled Water	<ul style="list-style-type: none"> <li>Recycled connections (purple pipe) to irrigation system on site</li> </ul>	<ul style="list-style-type: none"> <li>6 points</li> </ul>	
Storm Water Reuse System	<ul style="list-style-type: none"> <li>Innovative on-site stormwater collection, filtration and reuse systems are being developed that provide supplemental irrigation water and provide vector control. These systems can greatly reduce the irrigation needs of a project. Point values for these types of systems will be determined based upon design and engineering data documenting the water savings.</li> </ul>	<ul style="list-style-type: none"> <li>TBD</li> </ul>	
<b>Potable Water</b>			
Showers	<ul style="list-style-type: none"> <li>Water Efficient Showerheads (2.0 gpm)</li> </ul>	<ul style="list-style-type: none"> <li>3 points</li> </ul>	
Toilets	<ul style="list-style-type: none"> <li>Water Efficient Toilets (1.5 gpm)</li> </ul>	<ul style="list-style-type: none"> <li>3 points</li> </ul>	
Faucets	<ul style="list-style-type: none"> <li>Water Efficient faucets (1.28 gpm)</li> </ul>	<ul style="list-style-type: none"> <li>3 points</li> </ul>	
Dishwasher	<ul style="list-style-type: none"> <li>Water Efficient Dishwasher (6 gallons per cycle or less)</li> </ul>	<ul style="list-style-type: none"> <li>1 point</li> </ul>	
Washing Machine	<ul style="list-style-type: none"> <li>Water Efficient Washing Machine (Water factor &lt;5.5)</li> </ul>	<ul style="list-style-type: none"> <li>1 point</li> </ul>	
WaterSense	<ul style="list-style-type: none"> <li>EPA WaterSense Certification</li> </ul>	<ul style="list-style-type: none"> <li>12 points</li> </ul>	

<b>Table 3-4. City of Victorville GHG Emissions Screening Table- Residential Section</b>			
<b>Feature</b>	<b>Description</b>	<b>Assigned point Values</b>	<b>Project Points</b>
<b>Reduction Measure PS T1: Land Use Based Trips and VMT Reduction</b>			
Mixed Use	<p>Mixes of land uses that complement one another in a way that reduces the need for vehicle trips can greatly reduce GHG emissions. The point value of mixed-use projects will be determined based upon a Transportation Impact Analysis (TIA) demonstrating trip reductions and/or reductions in vehicle miles traveled. Suggested ranges:</p> <ul style="list-style-type: none"> <li>○ Diversity of land uses complementing each other (2-28 points)</li> <li>○ Increased destination accessibility other than transit (1-18 points)</li> <li>○ Increased transit accessibility (1-25 points)</li> <li>○ Infill location that reduces vehicle trips or VMT beyond the measures described above (points TBD based on traffic data).</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	
Residential Near Local Retail (Residential Only Projects)	<p>Having residential developments within walking and biking distance of local retail helps to reduce vehicle trips and/or vehicle miles traveled. The point value of residential projects in close proximity to local retail will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled (VMT)</p>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	
Other Trip Reduction Measures	<ul style="list-style-type: none"> <li>○ Other trip or VMT reduction measures not listed above with TIA and/or other traffic data supporting the trip and/or VMT for the project</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> </ul>	
<b>Reduction Measure PS T2: Bicycle Infrastructure</b>			
Bicycle Infrastructure	<ul style="list-style-type: none"> <li>○ Provide bicycle paths within project boundaries.</li> <li>○ Provide bicycle path linkages between residential and other land uses.</li> <li>○ Provide bicycle path linkages between residential and transit.</li> </ul>	<ul style="list-style-type: none"> <li>○ TBD</li> <li>○ 2 points</li> <li>○ 5 points</li> </ul>	
<b>Reduction Measure PS T3: Neighborhood Electric Vehicle Infrastructure</b>			
Electrical Vehicle Recharge	<ul style="list-style-type: none"> <li>○ Provide circuit and capacity in garages of residential units for use by an electric vehicle. Charging stations are for on-road electric vehicles legally able to drive on all roadways including Interstate Highways and freeways.</li> <li>○ Install electric vehicle charging stations in the garages of residential units</li> </ul>	<ul style="list-style-type: none"> <li>○ 1 point</li> <li>○ 8 points</li> </ul>	
<b>Total Points Earned by Residential Project</b>			

Source: City of Victorville 2015.

As shown in Table 3-4, the City's CAP Screening Table presents a plethora of options for projects to implement in order to reduce GHG emissions, associated with operational activities, to a less than

significant level. As previously stated, the purpose of the City GHG Emissions Screening Tables is to provide guidance in measuring the reduction of GHG emissions attributable to certain design and construction measures incorporated into development projects. The Screening Table assigns points for each option incorporated into a project. The point values correspond to the minimum emissions reduction expected from each feature and a minimum of 45 Screening Table Points must be met for each project. The menu of features allows maximum flexibility and options for how development projects can implement the GHG reduction measures.

Implementation of the following mitigation is necessary to reduce Project-related GHG impacts to a less than significant level:

**GHG-1:** The Proposed Project shall demonstrate consistency with the City of Victorville Climate Action Plan Residential GHG Emission Screening Table, providing for a minimum 45 points per the City Screening Tables. The Project must be consistent with the CAP's requirement to achieve at least 45 points. The City of Victorville Planning Department shall verify incorporation of the identified Screening Table Measures within the Project building plans and Site designs prior to the issuance of building permit(s) and shall verify implementation of the identified Screening Table Measures prior to the issuance of Certificate(s) of Occupancy.

With the implementation of mitigation measure GHG-1, the Project would achieve the necessary 45 points (or more) from the City GHG Emissions Screening Tables and therefore would be considered consistent with the City's GHG-reduction strategy. As explained previously, the City of Victorville CAP established a GHG emissions reduction target for the year 2020 that was 29 percent below projected year 2020 emission levels. The GHG Plan is consistent with the AB 32 Scoping Plan and sets the City on a path to achieve a more substantial long-term reduction in the post-2020 period. Achieving this level of emissions would ensure that the contribution to GHG emissions from activities covered by the CAP would not be cumulatively considerable. Applicants are required to use the Victorville CAP GHG Emissions Screening Tables as a tool to assist with calculating GHG reduction measures and the determination of a significance finding. Projects that garner 45 or more points on the Screening Tables are considered less than significant.

It is noted that the Project would gain ten points per EV charging station provided by the Project. Rooftop Solar is proposed to be installed on the covered parking areas, which would be used for powering the EV charging stations. As such, the Project would earn points per EV charging station provided under the Victorville CAP.

GHG emissions generated by energy sources account for all stages of the life-cycle (including mining, construction, etc.), which are referred to as the cumulative GHG emissions and are usually expressed in grams of carbon dioxide equivalent per unit of busbar electricity (i.e., gCO<sub>2</sub>/kWh<sub>e</sub>). When comparing various fossil-fueled energy generators, the GHG emissions generated are dependent on the type of fuel (i.e., gas, oil, coal). GHG emissions generated by some of the more common types of fossil-fueled plants and solar power plants are summarized in Table 3-5.



<b>Fossil Fuel/ Energy Source</b>	<b>gCO<sub>2</sub>e/kWh<sup>1</sup></b>
Coal	950 to 1,250
Oil	500 to 1,200
Gas	440 to 780
Solar	43 to 73 <sup>3</sup>

Source: Weisser 2007

Notes:

<sup>1</sup> gCO<sub>2</sub>e/kWh<sub>e</sub> = grams of carbon dioxide equivalent per unit of busbar electricity.

<sup>2</sup> Emissions are based on lifecycle of energy source including mining, construction, operation, etc.

<sup>3</sup> Solar PV life-cycle emissions result from using fossil-fuel-based energy to produce the materials for solar cells, modules, and systems, as well as directly from smelting, production, and manufacturing facilities.

As shown in Table 3-5, generating power for EV charging through the use of solar power and powering the operational phase of the Project through the use of renewable energy would generate far less GHG life-cycle emissions than traditional fossil-fueled energy generation. Therefore, the use of renewable energy to power the Proposed Project would contribute to the continued reduction of GHG emissions in the interconnected California and western United States electricity systems.

While the Project would emit GHG emissions during construction and operations, the Project would contribute and utilize renewable resource energy production to meet the goals of the AB 32 Scoping Plan. Increasing sources of solar energy is one of the measures identified in the Scoping Plan to reduce statewide GHG emissions. The Proposed Project would reduce GHG emissions in a manner consistent with California GHG-reducing legislation by producing solar power to power the EV charging stations. Use of solar power would replace some use of fossil fuels to power traditional vehicles and would reduce GHG emissions associated with traditional power generation and use.

In addition, the Project is required to comply with California's Title 20 Water Efficiency Standards for water appliances in each unit (i.e. showerheads, faucets, toilets, dishwashers, and washing machines). As such, the Project will earn sixteen points under the Potable Water category.

The specific energy efficiency of the other Project components is not yet known; however, implementation of mitigation measure GHG-1 would gain several more points per the Screening Tables. These points in addition to those earned for water efficient appliances and providing solar powered EV charging stations would result in the Project earning over 45 points.

The Project is proposing the construction of a new Wellness Center Campus to fulfill goals and policies set out the City's General Plan Housing Element by providing publicly-owned land to build affordable living opportunities that will enhance the quality of life for the City's homeless population. The wellness center would provide for a safe and stable support structure onsite, acting as a low-barrier center to provide interim housing, support services, medical oversight and recuperative care to homeless men, women and families striving to transition out of homelessness. Once the initial interim housing and emergency sheltering period is over (approximately 180 days), the facility would provide for permanent housing within its supportive housing cottages. The Site is strategically located within walking distance to mass

transit, shopping, and parkland for recreational activities, and would add an additional bus stop to the existing transit system, which would be consistent with OTSP Policy 7-8 that aims to improve the transit system through new development within the SPA. The majority of the patron population is expected to use local transit or walking corridors, thus reducing the vehicle miles travelled (VMT) for the City as a whole, and thus GHG emissions, and would be consistent with OTSP Policy 7-6, which aims to increase bicycle and pedestrian activity throughout the SPA. The Site's eastern boundary abuts an existing walking/bike path, allowing for pedestrian and cycling access to and from the Site. Not only would the Proposed Project be designed with GHG reducing measures, but the overarching goal of the Project itself is to provide for an opportunity for individuals to get the medical and mental health services necessary for the rehabilitation and recuperation of homeless citizens, and to provide the tools and resources to help break the cycle of homelessness.

## 4.0 REFERENCES

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**ATTACHMENT A**

CalEEMod Output Files

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Annual

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

**Victorville Wellness Center PHASE 1 Construction**

**San Bernardino-Mojave Desert County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
General Office Building	2.24	1000sqft	0.05	2,240.00	0
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Parking Lot	39.00	Space	0.35	15,600.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	144.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	72.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2024		

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

**Utility Company** Southern California Edison

**CO2 Intensity (lb/MWhr)** 390.98      **CH4 Intensity (lb/MWhr)** 0.033      **N2O Intensity (lb/MWhr)** 0.004

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

Project Characteristics -

Land Use - Land Use types accounting for all phase 1 buildings, parkings spaces, hardscapes, retention pond. Other Non-Asphalt accounts for all other spaces throughout project site, excluding approximate area of Phase 2 (2.22 acres)

Construction Phase - Construction, Paving, and Architectural Coating phases assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - No Hearths

Energy Use - Construction Only Model

Area Coating - Construction Only Model

Consumer Products - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	2/10/2023	3/10/2023
tblConstructionPhase	PhaseEndDate	2/24/2023	3/10/2023
tblConstructionPhase	PhaseStartDate	2/25/2023	4/9/2022
tblConstructionPhase	PhaseStartDate	2/11/2023	4/9/2022
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	6.62	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	195.77	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	11.06	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24NG	8,352.17	0.00



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tblEnergyUse	T24NG	3.43	0.00
tblEnergyUse	T24NG	76.89	0.00
tblEnergyUse	T24NG	3.43	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	77.55	0.00
tblFireplaces	NumberNoFireplace	14.10	0.00
tblFireplaces	NumberWood	49.35	0.00
tblLandUse	LandUseSquareFeet	21,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	140.00	144.00
tblLandUse	LandUseSquareFeet	70.00	72.00
tblLandUse	LotAcreage	1.31	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00

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tblSolidWaste	SolidWasteGenerationRate	128.66	0.00
tblSolidWaste	SolidWasteGenerationRate	5.21	0.00
tblSolidWaste	SolidWasteGenerationRate	34.27	0.00
tblSolidWaste	SolidWasteGenerationRate	15.55	0.00
tblVehicleTrips	ST_TR	2.93	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	122.40	0.00
tblVehicleTrips	ST_TR	8.57	0.00
tblVehicleTrips	SU_TR	3.15	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	142.64	0.00
tblVehicleTrips	SU_TR	1.42	0.00
tblVehicleTrips	WD_TR	2.60	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	112.18	0.00
tblVehicleTrips	WD_TR	34.80	0.00
tblWater	IndoorWaterUseRate	9,186,717.61	0.00
tblWater	IndoorWaterUseRate	995,308.99	0.00
tblWater	IndoorWaterUseRate	874,177.09	0.00
tblWater	IndoorWaterUseRate	180,691.97	0.00
tblWater	OutdoorWaterUseRate	5,791,626.32	0.00
tblWater	OutdoorWaterUseRate	610,028.09	0.00
tblWater	OutdoorWaterUseRate	55,798.54	0.00
tblWater	OutdoorWaterUseRate	34,417.52	0.00
tblWoodstoves	NumberCatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

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

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.6471	2.8204	3.3474	6.4500e-003	0.1804	0.1346	0.3150	0.0526	0.1273	0.1799	0.0000	562.3798	562.3798	0.0997	0.0113	568.2256
2023	0.1570	0.6253	0.8167	1.5900e-003	0.0409	0.0284	0.0692	0.0110	0.0268	0.0378	0.0000	138.3992	138.3992	0.0237	2.8000e-003	139.8252
<b>Maximum</b>	<b>0.6471</b>	<b>2.8204</b>	<b>3.3474</b>	<b>6.4500e-003</b>	<b>0.1804</b>	<b>0.1346</b>	<b>0.3150</b>	<b>0.0526</b>	<b>0.1273</b>	<b>0.1799</b>	<b>0.0000</b>	<b>562.3798</b>	<b>562.3798</b>	<b>0.0997</b>	<b>0.0113</b>	<b>568.2256</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.5224	2.2379	3.6543	6.4500e-003	0.0995	0.1365	0.2360	0.0299	0.1363	0.1662	0.0000	562.3794	562.3794	0.0997	0.0113	568.2251
2023	0.1317	0.5391	0.8923	1.5900e-003	0.0236	0.0323	0.0559	6.7200e-003	0.0323	0.0390	0.0000	138.3991	138.3991	0.0237	2.8000e-003	139.8251
<b>Maximum</b>	<b>0.5224</b>	<b>2.2379</b>	<b>3.6543</b>	<b>6.4500e-003</b>	<b>0.0995</b>	<b>0.1365</b>	<b>0.2360</b>	<b>0.0299</b>	<b>0.1363</b>	<b>0.1662</b>	<b>0.0000</b>	<b>562.3794</b>	<b>562.3794</b>	<b>0.0997</b>	<b>0.0113</b>	<b>568.2251</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	18.66	19.41	-9.19	0.00	44.38	-3.57	24.05	42.46	-9.38	5.75	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	0.8928	0.6597
2	6-1-2022	8-31-2022	1.1067	0.9038
3	9-1-2022	11-30-2022	1.0956	0.8950
4	12-1-2022	2-28-2023	1.0333	0.8709
5	3-1-2023	5-31-2023	0.1119	0.0959
		Highest	1.1067	0.9038

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0315</b>	<b>0.0121</b>	<b>1.0471</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>1.7114</b>	<b>1.7114</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.7525</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0315</b>	<b>0.0121</b>	<b>1.0471</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>1.7114</b>	<b>1.7114</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.7525</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/28/2022	5	20	
2	Site Preparation	Site Preparation	3/29/2022	3/31/2022	5	3	
3	Grading	Grading	4/1/2022	4/8/2022	5	6	

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4	Building Construction	Building Construction	4/9/2022	3/10/2023	5	240
5	Paving	Paving	4/9/2022	3/10/2023	5	240
6	Architectural Coating	Architectural Coating	4/9/2022	3/10/2023	5	240

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 1.76**

**Residential Indoor: 27,216; Residential Outdoor: 9,072; Non-Residential Indoor: 14,880; Non-Residential Outdoor: 4,960; Striped Parking Area: 4,617 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	137.00	29.00	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	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0169	0.1662	0.1396	2.4000e-004		8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2120
<b>Total</b>	<b>0.0169</b>	<b>0.1662</b>	<b>0.1396</b>	<b>2.4000e-004</b>		<b>8.3800e-003</b>	<b>8.3800e-003</b>		<b>7.8300e-003</b>	<b>7.8300e-003</b>	<b>0.0000</b>	<b>21.0777</b>	<b>21.0777</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>21.2120</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5700e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8409	0.8409	3.0000e-005	3.0000e-005	0.8494
<b>Total</b>	<b>4.1000e-004</b>	<b>3.0000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8409</b>	<b>0.8409</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8494</b>



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**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6200e-003	0.0968	0.1542	2.4000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2119
<b>Total</b>	<b>5.6200e-003</b>	<b>0.0968</b>	<b>0.1542</b>	<b>2.4000e-004</b>		<b>7.1800e-003</b>	<b>7.1800e-003</b>		<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>21.0777</b>	<b>21.0777</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>21.2119</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5700e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.8409	0.8409	3.0000e-005	3.0000e-005	0.8494
<b>Total</b>	<b>4.1000e-004</b>	<b>3.0000e-004</b>	<b>3.5700e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.8409</b>	<b>0.8409</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8494</b>

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

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0235</b>	<b>0.0151</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.9000e-004</b>	<b>3.2800e-003</b>	<b>2.6000e-004</b>	<b>8.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0776	0.0776	0.0000	0.0000	0.0784
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0776</b>	<b>0.0776</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0784</b>

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

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	0.0142	0.0205	4.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0142</b>	<b>0.0205</b>	<b>4.0000e-005</b>	<b>9.3000e-004</b>	<b>7.5000e-004</b>	<b>1.6800e-003</b>	<b>1.0000e-004</b>	<b>7.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0776	0.0776	0.0000	0.0000	0.0784
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0776</b>	<b>0.0776</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0784</b>

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

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0510</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>2.2300e-003</b>	<b>0.0235</b>	<b>0.0103</b>	<b>2.0500e-003</b>	<b>0.0123</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	8.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1940	0.1940	1.0000e-005	1.0000e-005	0.1960
<b>Total</b>	<b>9.0000e-005</b>	<b>7.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1940</b>	<b>0.1940</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1960</b>

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

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	4.0100e-003	0.0000	4.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5100e-003	0.0245	0.0364	6.0000e-005		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>1.5100e-003</b>	<b>0.0245</b>	<b>0.0364</b>	<b>6.0000e-005</b>	<b>8.2900e-003</b>	<b>1.4600e-003</b>	<b>9.7500e-003</b>	<b>4.0100e-003</b>	<b>1.4600e-003</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	8.2000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1940	0.1940	1.0000e-005	1.0000e-005	0.1960
<b>Total</b>	<b>9.0000e-005</b>	<b>7.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1940</b>	<b>0.1940</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1960</b>

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1763	1.3874	1.3636	2.3800e-003		0.0667	0.0667		0.0639	0.0639	0.0000	197.2961	197.2961	0.0381	0.0000	198.2477
<b>Total</b>	<b>0.1763</b>	<b>1.3874</b>	<b>1.3636</b>	<b>2.3800e-003</b>		<b>0.0667</b>	<b>0.0667</b>		<b>0.0639</b>	<b>0.0639</b>	<b>0.0000</b>	<b>197.2961</b>	<b>197.2961</b>	<b>0.0381</b>	<b>0.0000</b>	<b>198.2477</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8500e-003	0.1321	0.0459	5.4000e-004	0.0184	1.5200e-003	0.0199	5.3000e-003	1.4500e-003	6.7600e-003	0.0000	52.6401	52.6401	1.4200e-003	7.7900e-003	54.9978
Worker	0.0410	0.0302	0.3577	9.2000e-004	0.1049	5.8000e-004	0.1055	0.0279	5.3000e-004	0.0284	0.0000	84.1818	84.1818	2.8500e-003	2.6200e-003	85.0343
<b>Total</b>	<b>0.0459</b>	<b>0.1623</b>	<b>0.4036</b>	<b>1.4600e-003</b>	<b>0.1233</b>	<b>2.1000e-003</b>	<b>0.1254</b>	<b>0.0332</b>	<b>1.9800e-003</b>	<b>0.0352</b>	<b>0.0000</b>	<b>136.8219</b>	<b>136.8219</b>	<b>4.2700e-003</b>	<b>0.0104</b>	<b>140.0321</b>

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1165	1.1239	1.5205	2.3800e-003		0.0668	0.0668		0.0668	0.0668	0.0000	197.2959	197.2959	0.0381	0.0000	198.2475
<b>Total</b>	<b>0.1165</b>	<b>1.1239</b>	<b>1.5205</b>	<b>2.3800e-003</b>		<b>0.0668</b>	<b>0.0668</b>		<b>0.0668</b>	<b>0.0668</b>	<b>0.0000</b>	<b>197.2959</b>	<b>197.2959</b>	<b>0.0381</b>	<b>0.0000</b>	<b>198.2475</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8500e-003	0.1321	0.0459	5.4000e-004	0.0119	1.5200e-003	0.0134	3.7100e-003	1.4500e-003	5.1600e-003	0.0000	52.6401	52.6401	1.4200e-003	7.7900e-003	54.9978
Worker	0.0410	0.0302	0.3577	9.2000e-004	0.0594	5.8000e-004	0.0600	0.0167	5.3000e-004	0.0172	0.0000	84.1818	84.1818	2.8500e-003	2.6200e-003	85.0343
<b>Total</b>	<b>0.0459</b>	<b>0.1623</b>	<b>0.4036</b>	<b>1.4600e-003</b>	<b>0.0713</b>	<b>2.1000e-003</b>	<b>0.0734</b>	<b>0.0204</b>	<b>1.9800e-003</b>	<b>0.0224</b>	<b>0.0000</b>	<b>136.8219</b>	<b>136.8219</b>	<b>4.2700e-003</b>	<b>0.0104</b>	<b>140.0321</b>

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**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.3406	0.3554	6.3000e-004		0.0153	0.0153		0.0147	0.0147	0.0000	51.9255	51.9255	9.8200e-003	0.0000	52.1710
<b>Total</b>	<b>0.0428</b>	<b>0.3406</b>	<b>0.3554</b>	<b>6.3000e-004</b>		<b>0.0153</b>	<b>0.0153</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>51.9255</b>	<b>51.9255</b>	<b>9.8200e-003</b>	<b>0.0000</b>	<b>52.1710</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0278	0.0110	1.4000e-004	4.8400e-003	2.0000e-004	5.0400e-003	1.4000e-003	1.9000e-004	1.5900e-003	0.0000	13.2955	13.2955	3.5000e-004	1.9600e-003	13.8894
Worker	9.9700e-003	7.0100e-003	0.0864	2.3000e-004	0.0276	1.4000e-004	0.0277	7.3300e-003	1.3000e-004	7.4600e-003	0.0000	21.4402	21.4402	6.8000e-004	6.4000e-004	21.6466
<b>Total</b>	<b>0.0108</b>	<b>0.0348</b>	<b>0.0974</b>	<b>3.7000e-004</b>	<b>0.0324</b>	<b>3.4000e-004</b>	<b>0.0328</b>	<b>8.7300e-003</b>	<b>3.2000e-004</b>	<b>9.0500e-003</b>	<b>0.0000</b>	<b>34.7357</b>	<b>34.7357</b>	<b>1.0300e-003</b>	<b>2.6000e-003</b>	<b>35.5360</b>



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**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0290	0.2926	0.3988	6.3000e-004		0.0169	0.0169		0.0169	0.0169	0.0000	51.9255	51.9255	9.8200e-003	0.0000	52.1710
<b>Total</b>	<b>0.0290</b>	<b>0.2926</b>	<b>0.3988</b>	<b>6.3000e-004</b>		<b>0.0169</b>	<b>0.0169</b>		<b>0.0169</b>	<b>0.0169</b>	<b>0.0000</b>	<b>51.9255</b>	<b>51.9255</b>	<b>9.8200e-003</b>	<b>0.0000</b>	<b>52.1710</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0278	0.0110	1.4000e-004	3.1300e-003	2.0000e-004	3.3300e-003	9.8000e-004	1.9000e-004	1.1700e-003	0.0000	13.2955	13.2955	3.5000e-004	1.9600e-003	13.8894
Worker	9.9700e-003	7.0100e-003	0.0864	2.3000e-004	0.0156	1.4000e-004	0.0158	4.4000e-003	1.3000e-004	4.5300e-003	0.0000	21.4402	21.4402	6.8000e-004	6.4000e-004	21.6466
<b>Total</b>	<b>0.0108</b>	<b>0.0348</b>	<b>0.0974</b>	<b>3.7000e-004</b>	<b>0.0188</b>	<b>3.4000e-004</b>	<b>0.0191</b>	<b>5.3800e-003</b>	<b>3.2000e-004</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>34.7357</b>	<b>34.7357</b>	<b>1.0300e-003</b>	<b>2.6000e-003</b>	<b>35.5360</b>

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

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0894	0.8866	1.1112	1.7000e-003		0.0464	0.0464		0.0428	0.0428	0.0000	147.3454	147.3454	0.0467	0.0000	148.5128
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0902</b>	<b>0.8866</b>	<b>1.1112</b>	<b>1.7000e-003</b>		<b>0.0464</b>	<b>0.0464</b>		<b>0.0428</b>	<b>0.0428</b>	<b>0.0000</b>	<b>147.3454</b>	<b>147.3454</b>	<b>0.0467</b>	<b>0.0000</b>	<b>148.5128</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4900e-003	3.3100e-003	0.0392	1.0000e-004	0.0115	6.0000e-005	0.0116	3.0500e-003	6.0000e-005	3.1100e-003	0.0000	9.2170	9.2170	3.1000e-004	2.9000e-004	9.3103
<b>Total</b>	<b>4.4900e-003</b>	<b>3.3100e-003</b>	<b>0.0392</b>	<b>1.0000e-004</b>	<b>0.0115</b>	<b>6.0000e-005</b>	<b>0.0116</b>	<b>3.0500e-003</b>	<b>6.0000e-005</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>9.2170</b>	<b>9.2170</b>	<b>3.1000e-004</b>	<b>2.9000e-004</b>	<b>9.3103</b>

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

**3.6 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0400	0.6727	1.2325	1.7000e-003		0.0503	0.0503		0.0503	0.0503	0.0000	147.3452	147.3452	0.0467	0.0000	148.5127
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0408</b>	<b>0.6727</b>	<b>1.2325</b>	<b>1.7000e-003</b>		<b>0.0503</b>	<b>0.0503</b>		<b>0.0503</b>	<b>0.0503</b>	<b>0.0000</b>	<b>147.3452</b>	<b>147.3452</b>	<b>0.0467</b>	<b>0.0000</b>	<b>148.5127</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4900e-003	3.3100e-003	0.0392	1.0000e-004	6.5100e-003	6.0000e-005	6.5700e-003	1.8300e-003	6.0000e-005	1.8900e-003	0.0000	9.2170	9.2170	3.1000e-004	2.9000e-004	9.3103
<b>Total</b>	<b>4.4900e-003</b>	<b>3.3100e-003</b>	<b>0.0392</b>	<b>1.0000e-004</b>	<b>6.5100e-003</b>	<b>6.0000e-005</b>	<b>6.5700e-003</b>	<b>1.8300e-003</b>	<b>6.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>9.2170</b>	<b>9.2170</b>	<b>3.1000e-004</b>	<b>2.9000e-004</b>	<b>9.3103</b>

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2153	0.2921	4.5000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	38.7820	38.7820	0.0123	0.0000	39.0893
Paving	2.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0222</b>	<b>0.2153</b>	<b>0.2921</b>	<b>4.5000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0100</b>	<b>0.0100</b>	<b>0.0000</b>	<b>38.7820</b>	<b>38.7820</b>	<b>0.0123</b>	<b>0.0000</b>	<b>39.0893</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	7.7000e-004	9.4600e-003	3.0000e-005	3.0200e-003	2.0000e-005	3.0400e-003	8.0000e-004	1.0000e-005	8.2000e-004	0.0000	2.3475	2.3475	7.0000e-005	7.0000e-005	2.3701
<b>Total</b>	<b>1.0900e-003</b>	<b>7.7000e-004</b>	<b>9.4600e-003</b>	<b>3.0000e-005</b>	<b>3.0200e-003</b>	<b>2.0000e-005</b>	<b>3.0400e-003</b>	<b>8.0000e-004</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.3475</b>	<b>2.3475</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3701</b>

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0105	0.1770	0.3243	4.5000e-004		0.0132	0.0132		0.0132	0.0132	0.0000	38.7819	38.7819	0.0123	0.0000	39.0892
Paving	2.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0107</b>	<b>0.1770</b>	<b>0.3243</b>	<b>4.5000e-004</b>		<b>0.0132</b>	<b>0.0132</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>38.7819</b>	<b>38.7819</b>	<b>0.0123</b>	<b>0.0000</b>	<b>39.0892</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	7.7000e-004	9.4600e-003	3.0000e-005	1.7100e-003	2.0000e-005	1.7300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	2.3475	2.3475	7.0000e-005	7.0000e-005	2.3701
<b>Total</b>	<b>1.0900e-003</b>	<b>7.7000e-004</b>	<b>9.4600e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>2.3475</b>	<b>2.3475</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3701</b>

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

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.1338	0.1723	2.8000e-004		7.7600e-003	7.7600e-003		7.7600e-003	7.7600e-003	0.0000	24.2559	24.2559	1.5800e-003	0.0000	24.2954
<b>Total</b>	<b>0.2981</b>	<b>0.1338</b>	<b>0.1723</b>	<b>2.8000e-004</b>		<b>7.7600e-003</b>	<b>7.7600e-003</b>		<b>7.7600e-003</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>24.2559</b>	<b>24.2559</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>24.2954</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0800e-003	5.9500e-003	0.0705	1.8000e-004	0.0207	1.1000e-004	0.0208	5.4900e-003	1.0000e-004	5.6000e-003	0.0000	16.5906	16.5906	5.6000e-004	5.2000e-004	16.7586
<b>Total</b>	<b>8.0800e-003</b>	<b>5.9500e-003</b>	<b>0.0705</b>	<b>1.8000e-004</b>	<b>0.0207</b>	<b>1.1000e-004</b>	<b>0.0208</b>	<b>5.4900e-003</b>	<b>1.0000e-004</b>	<b>5.6000e-003</b>	<b>0.0000</b>	<b>16.5906</b>	<b>16.5906</b>	<b>5.6000e-004</b>	<b>5.2000e-004</b>	<b>16.7586</b>

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

**3.7 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.1338	0.1723	2.8000e-004		7.7600e-003	7.7600e-003		7.7600e-003	7.7600e-003	0.0000	24.2559	24.2559	1.5800e-003	0.0000	24.2954
<b>Total</b>	<b>0.2981</b>	<b>0.1338</b>	<b>0.1723</b>	<b>2.8000e-004</b>		<b>7.7600e-003</b>	<b>7.7600e-003</b>		<b>7.7600e-003</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>24.2559</b>	<b>24.2559</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>24.2954</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0800e-003	5.9500e-003	0.0705	1.8000e-004	0.0117	1.1000e-004	0.0118	3.2900e-003	1.0000e-004	3.4000e-003	0.0000	16.5906	16.5906	5.6000e-004	5.2000e-004	16.7586
<b>Total</b>	<b>8.0800e-003</b>	<b>5.9500e-003</b>	<b>0.0705</b>	<b>1.8000e-004</b>	<b>0.0117</b>	<b>1.1000e-004</b>	<b>0.0118</b>	<b>3.2900e-003</b>	<b>1.0000e-004</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>16.5906</b>	<b>16.5906</b>	<b>5.6000e-004</b>	<b>5.2000e-004</b>	<b>16.7586</b>

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7900e-003	0.0326	0.0453	7.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	6.3831	6.3831	3.8000e-004	0.0000	6.3927
<b>Total</b>	<b>0.0781</b>	<b>0.0326</b>	<b>0.0453</b>	<b>7.0000e-005</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>6.3831</b>	<b>6.3831</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.3927</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9600e-003	1.3800e-003	0.0170	5.0000e-005	5.4400e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.2254	4.2254	1.3000e-004	1.3000e-004	4.2661
<b>Total</b>	<b>1.9600e-003</b>	<b>1.3800e-003</b>	<b>0.0170</b>	<b>5.0000e-005</b>	<b>5.4400e-003</b>	<b>3.0000e-005</b>	<b>5.4700e-003</b>	<b>1.4400e-003</b>	<b>3.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.2254</b>	<b>4.2254</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>4.2661</b>



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

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7900e-003	0.0326	0.0453	7.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	6.3831	6.3831	3.8000e-004	0.0000	6.3927
<b>Total</b>	<b>0.0781</b>	<b>0.0326</b>	<b>0.0453</b>	<b>7.0000e-005</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>6.3831</b>	<b>6.3831</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.3927</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9600e-003	1.3800e-003	0.0170	5.0000e-005	3.0800e-003	3.0000e-005	3.1100e-003	8.7000e-004	3.0000e-005	8.9000e-004	0.0000	4.2254	4.2254	1.3000e-004	1.3000e-004	4.2661
<b>Total</b>	<b>1.9600e-003</b>	<b>1.3800e-003</b>	<b>0.0170</b>	<b>5.0000e-005</b>	<b>3.0800e-003</b>	<b>3.0000e-005</b>	<b>3.1100e-003</b>	<b>8.7000e-004</b>	<b>3.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>4.2254</b>	<b>4.2254</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>4.2661</b>

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**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**

Increase Density

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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

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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	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
Congregate Care (Assisted Living)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
General Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
High Turnover (Sit Down Restaurant)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Medical Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Non-Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Parking Lot	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**







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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**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
Category	tons/yr										MT/yr					
Mitigated	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525
Unmitigated	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525
<b>Total</b>	<b>0.0315</b>	<b>0.0121</b>	<b>1.0471</b>	<b>6.0000e-005</b>		<b>5.8000e-003</b>	<b>5.8000e-003</b>		<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>1.7114</b>	<b>1.7114</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.7525</b>

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**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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0315	0.0121	1.0471	6.0000e-005		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	1.7114	1.7114	1.6400e-003	0.0000	1.7525
<b>Total</b>	<b>0.0315</b>	<b>0.0121</b>	<b>1.0471</b>	<b>6.0000e-005</b>		<b>5.8000e-003</b>	<b>5.8000e-003</b>		<b>5.8000e-003</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>1.7114</b>	<b>1.7114</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.7525</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**Victorville Wellness Center PHASE 1 Construction**

**San Bernardino-Mojave Desert County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
General Office Building	2.24	1000sqft	0.05	2,240.00	0
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Parking Lot	39.00	Space	0.35	15,600.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	144.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	72.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2024		

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**Utility Company** Southern California Edison

**CO2 Intensity (lb/MWhr)** 390.98                      **CH4 Intensity (lb/MWhr)** 0.033                      **N2O Intensity (lb/MWhr)** 0.004

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

Project Characteristics -

Land Use - Land Use types accounting for all phase 1 buildings, parkings spaces, hardscapes, retention pond. Other Non-Asphalt accounts for all other spaces throughout project site, excluding approximate area of Phase 2 (2.22 acres)

Construction Phase - Construction, Paving, and Architectural Coating phases assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - No Hearths

Energy Use - Construction Only Model

Area Coating - Construction Only Model

Consumer Products - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	2/10/2023	3/10/2023
tblConstructionPhase	PhaseEndDate	2/24/2023	3/10/2023
tblConstructionPhase	PhaseStartDate	2/25/2023	4/9/2022
tblConstructionPhase	PhaseStartDate	2/11/2023	4/9/2022
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	6.62	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	195.77	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	11.06	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24NG	8,352.17	0.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

tblEnergyUse	T24NG	3.43	0.00
tblEnergyUse	T24NG	76.89	0.00
tblEnergyUse	T24NG	3.43	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	77.55	0.00
tblFireplaces	NumberNoFireplace	14.10	0.00
tblFireplaces	NumberWood	49.35	0.00
tblLandUse	LandUseSquareFeet	21,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	140.00	144.00
tblLandUse	LandUseSquareFeet	70.00	72.00
tblLandUse	LotAcreage	1.31	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

tblSolidWaste	SolidWasteGenerationRate	128.66	0.00
tblSolidWaste	SolidWasteGenerationRate	5.21	0.00
tblSolidWaste	SolidWasteGenerationRate	34.27	0.00
tblSolidWaste	SolidWasteGenerationRate	15.55	0.00
tblVehicleTrips	ST_TR	2.93	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	122.40	0.00
tblVehicleTrips	ST_TR	8.57	0.00
tblVehicleTrips	SU_TR	3.15	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	142.64	0.00
tblVehicleTrips	SU_TR	1.42	0.00
tblVehicleTrips	WD_TR	2.60	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	112.18	0.00
tblVehicleTrips	WD_TR	34.80	0.00
tblWater	IndoorWaterUseRate	9,186,717.61	0.00
tblWater	IndoorWaterUseRate	995,308.99	0.00
tblWater	IndoorWaterUseRate	874,177.09	0.00
tblWater	IndoorWaterUseRate	180,691.97	0.00
tblWater	OutdoorWaterUseRate	5,791,626.32	0.00
tblWater	OutdoorWaterUseRate	610,028.09	0.00
tblWater	OutdoorWaterUseRate	55,798.54	0.00
tblWater	OutdoorWaterUseRate	34,417.52	0.00
tblWoodstoves	NumberCatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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					
2022	6.6389	27.0436	33.9684	0.0652	7.1647	1.2957	7.9075	3.4465	1.2274	4.1298	0.0000	6,271.9508	6,271.9508	1.0601	0.1276	6,336.4870
2023	6.3558	24.9243	33.2996	0.0645	1.6670	1.1338	2.8008	0.4466	1.0737	1.5203	0.0000	6,202.8637	6,202.8637	1.0445	0.1209	6,264.9978
<b>Maximum</b>	<b>6.6389</b>	<b>27.0436</b>	<b>33.9684</b>	<b>0.0652</b>	<b>7.1647</b>	<b>1.2957</b>	<b>7.9075</b>	<b>3.4465</b>	<b>1.2274</b>	<b>4.1298</b>	<b>0.0000</b>	<b>6,271.9508</b>	<b>6,271.9508</b>	<b>1.0601</b>	<b>0.1276</b>	<b>6,336.4870</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.4894	22.0187	36.8969	0.0652	2.8087	1.3375	3.2941	1.3487	1.3362	1.8341	0.0000	6,271.9508	6,271.9508	1.0601	0.1276	6,336.4870
2023	5.3424	21.4748	36.3262	0.0645	0.9580	1.2920	2.2500	0.2726	1.2910	1.5636	0.0000	6,202.8637	6,202.8637	1.0445	0.1209	6,264.9978
<b>Maximum</b>	<b>5.4894</b>	<b>22.0187</b>	<b>36.8969</b>	<b>0.0652</b>	<b>2.8087</b>	<b>1.3375</b>	<b>3.2941</b>	<b>1.3487</b>	<b>1.3362</b>	<b>1.8341</b>	<b>0.0000</b>	<b>6,271.9508</b>	<b>6,271.9508</b>	<b>1.0601</b>	<b>0.1276</b>	<b>6,336.4870</b>

## Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	16.64	16.31	-8.85	0.00	57.35	-8.24	48.23	58.36	-14.18	39.86	0.00	0.00	0.00	0.00	0.00	0.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	3/1/2022	3/28/2022	5	20	
2	Site Preparation	Site Preparation	3/29/2022	3/31/2022	5	3	
3	Grading	Grading	4/1/2022	4/8/2022	5	6	
4	Building Construction	Building Construction	4/9/2022	3/10/2023	5	240	
5	Paving	Paving	4/9/2022	3/10/2023	5	240	
6	Architectural Coating	Architectural Coating	4/9/2022	3/10/2023	5	240	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 1.76**

**Residential Indoor: 27,216; Residential Outdoor: 9,072; Non-Residential Indoor: 14,880; Non-Residential Outdoor: 4,960; Striped Parking Area: 4,617 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Site Preparation	Graders	1	8.00	187	0.41

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	137.00	29.00	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	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>		<b>0.8379</b>	<b>0.8379</b>		<b>0.7829</b>	<b>0.7829</b>		<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0274	0.4088	9.9000e-004	0.1068	5.8000e-004	0.1074	0.0283	5.3000e-004	0.0289		100.2964	100.2964	3.0300e-003	2.7100e-003	101.1799
<b>Total</b>	<b>0.0468</b>	<b>0.0274</b>	<b>0.4088</b>	<b>9.9000e-004</b>	<b>0.1068</b>	<b>5.8000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>100.2964</b>	<b>100.2964</b>	<b>3.0300e-003</b>	<b>2.7100e-003</b>	<b>101.1799</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	0.5621	9.6827	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>0.5621</b>	<b>9.6827</b>	<b>15.4154</b>	<b>0.0241</b>		<b>0.7182</b>	<b>0.7182</b>		<b>0.7182</b>	<b>0.7182</b>	<b>0.0000</b>	<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0274	0.4088	9.9000e-004	0.0604	5.8000e-004	0.0610	0.0169	5.3000e-004	0.0175		100.2964	100.2964	3.0300e-003	2.7100e-003	101.1799
<b>Total</b>	<b>0.0468</b>	<b>0.0274</b>	<b>0.4088</b>	<b>9.9000e-004</b>	<b>0.0604</b>	<b>5.8000e-004</b>	<b>0.0610</b>	<b>0.0169</b>	<b>5.3000e-004</b>	<b>0.0175</b>		<b>100.2964</b>	<b>100.2964</b>	<b>3.0300e-003</b>	<b>2.7100e-003</b>	<b>101.1799</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5952</b>	<b>2.1859</b>	<b>0.1718</b>	<b>0.5476</b>	<b>0.7193</b>		<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0169	0.2516	6.1000e-004	0.0657	3.6000e-004	0.0661	0.0174	3.3000e-004	0.0178		61.7209	61.7209	1.8700e-003	1.6700e-003	62.2645
<b>Total</b>	<b>0.0288</b>	<b>0.0169</b>	<b>0.2516</b>	<b>6.1000e-004</b>	<b>0.0657</b>	<b>3.6000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>61.7209</b>	<b>61.7209</b>	<b>1.8700e-003</b>	<b>1.6700e-003</b>	<b>62.2645</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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6016	9.4903	13.6431	0.0245		0.4988	0.4988		0.4988	0.4988	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>0.6016</b>	<b>9.4903</b>	<b>13.6431</b>	<b>0.0245</b>	<b>0.6204</b>	<b>0.4988</b>	<b>1.1191</b>	<b>0.0670</b>	<b>0.4988</b>	<b>0.5657</b>	<b>0.0000</b>	<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0288	0.0169	0.2516	6.1000e-004	0.0372	3.6000e-004	0.0375	0.0104	3.3000e-004	0.0108		61.7209	61.7209	1.8700e-003	1.6700e-003	62.2645
<b>Total</b>	<b>0.0288</b>	<b>0.0169</b>	<b>0.2516</b>	<b>6.1000e-004</b>	<b>0.0372</b>	<b>3.6000e-004</b>	<b>0.0375</b>	<b>0.0104</b>	<b>3.3000e-004</b>	<b>0.0108</b>		<b>61.7209</b>	<b>61.7209</b>	<b>1.8700e-003</b>	<b>1.6700e-003</b>	<b>62.2645</b>

**3.4 Grading - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.7423</b>	<b>7.8249</b>	<b>3.4247</b>	<b>0.6829</b>	<b>4.1076</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0211	0.3145	7.6000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		77.1511	77.1511	2.3300e-003	2.0800e-003	77.8307
<b>Total</b>	<b>0.0360</b>	<b>0.0211</b>	<b>0.3145</b>	<b>7.6000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>77.1511</b>	<b>77.1511</b>	<b>2.3300e-003</b>	<b>2.0800e-003</b>	<b>77.8307</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					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	0.5043	8.1720	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>0.5043</b>	<b>8.1720</b>	<b>12.1450</b>	<b>0.0206</b>	<b>2.7622</b>	<b>0.4850</b>	<b>3.2472</b>	<b>1.3357</b>	<b>0.4850</b>	<b>1.8207</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0360	0.0211	0.3145	7.6000e-004	0.0465	4.4000e-004	0.0469	0.0130	4.1000e-004	0.0134		77.1511	77.1511	2.3300e-003	2.0800e-003	77.8307
<b>Total</b>	<b>0.0360</b>	<b>0.0211</b>	<b>0.3145</b>	<b>7.6000e-004</b>	<b>0.0465</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0130</b>	<b>4.1000e-004</b>	<b>0.0134</b>		<b>77.1511</b>	<b>77.1511</b>	<b>2.3300e-003</b>	<b>2.0800e-003</b>	<b>77.8307</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0521	1.3217	0.4758	5.6900e-003	0.1965	0.0160	0.2125	0.0566	0.0153	0.0719		610.5278	610.5278	0.0165	0.0903	637.8536
Worker	0.4932	0.2887	4.3081	0.0105	1.1254	6.0800e-003	1.1315	0.2985	5.6000e-003	0.3041		1,056.9699	1,056.9699	0.0319	0.0286	1,066.2799
<b>Total</b>	<b>0.5453</b>	<b>1.6104</b>	<b>4.7838</b>	<b>0.0162</b>	<b>1.3220</b>	<b>0.0220</b>	<b>1.3440</b>	<b>0.3551</b>	<b>0.0209</b>	<b>0.3760</b>		<b>1,667.4977</b>	<b>1,667.4977</b>	<b>0.0484</b>	<b>0.1189</b>	<b>1,704.1335</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	1.2264	11.8304	16.0050	0.0250		0.7028	0.7028		0.7028	0.7028	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.2264</b>	<b>11.8304</b>	<b>16.0050</b>	<b>0.0250</b>		<b>0.7028</b>	<b>0.7028</b>		<b>0.7028</b>	<b>0.7028</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0521	1.3217	0.4758	5.6900e-003	0.1266	0.0160	0.1425	0.0394	0.0153	0.0547		610.5278	610.5278	0.0165	0.0903	637.8536
Worker	0.4932	0.2887	4.3081	0.0105	0.6364	6.0800e-003	0.6425	0.1785	5.6000e-003	0.1841		1,056.9699	1,056.9699	0.0319	0.0286	1,066.2799
<b>Total</b>	<b>0.5453</b>	<b>1.6104</b>	<b>4.7838</b>	<b>0.0162</b>	<b>0.7629</b>	<b>0.0220</b>	<b>0.7850</b>	<b>0.2179</b>	<b>0.0209</b>	<b>0.2388</b>		<b>1,667.4977</b>	<b>1,667.4977</b>	<b>0.0484</b>	<b>0.1189</b>	<b>1,704.1335</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		2,289.5233	2,289.5233	0.4330		2,300.3479
<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>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.0548	0.4335	5.4600e-003	0.1965	8.0800e-003	0.2046	0.0566	7.7200e-003	0.0643		585.6614	585.6614	0.0153	0.0865	611.8063
Worker	0.4551	0.2547	3.9466	0.0101	1.1254	5.7200e-003	1.1311	0.2985	5.2600e-003	0.3038		1,022.7076	1,022.7076	0.0287	0.0264	1,031.2757
<b>Total</b>	<b>0.4897</b>	<b>1.3095</b>	<b>4.3801</b>	<b>0.0156</b>	<b>1.3219</b>	<b>0.0138</b>	<b>1.3357</b>	<b>0.3551</b>	<b>0.0130</b>	<b>0.3681</b>		<b>1,608.3690</b>	<b>1,608.3690</b>	<b>0.0440</b>	<b>0.1128</b>	<b>1,643.0820</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	1.1596	11.7033	15.9514	0.0250		0.6765	0.6765		0.6765	0.6765	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.1596</b>	<b>11.7033</b>	<b>15.9514</b>	<b>0.0250</b>		<b>0.6765</b>	<b>0.6765</b>		<b>0.6765</b>	<b>0.6765</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0346	1.0548	0.4335	5.4600e-003	0.1266	8.0800e-003	0.1346	0.0394	7.7200e-003	0.0471		585.6614	585.6614	0.0153	0.0865	611.8063
Worker	0.4551	0.2547	3.9466	0.0101	0.6364	5.7200e-003	0.6421	0.1785	5.2600e-003	0.1837		1,022.7076	1,022.7076	0.0287	0.0264	1,031.2757
<b>Total</b>	<b>0.4897</b>	<b>1.3095</b>	<b>4.3801</b>	<b>0.0156</b>	<b>0.7629</b>	<b>0.0138</b>	<b>0.7767</b>	<b>0.2179</b>	<b>0.0130</b>	<b>0.2309</b>		<b>1,608.3690</b>	<b>1,608.3690</b>	<b>0.0440</b>	<b>0.1128</b>	<b>1,643.0820</b>

**3.6 Paving - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9495</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>		<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0540	0.0316	0.4717	1.1400e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333		115.7266	115.7266	3.5000e-003	3.1300e-003	116.7460
<b>Total</b>	<b>0.0540</b>	<b>0.0316</b>	<b>0.4717</b>	<b>1.1400e-003</b>	<b>0.1232</b>	<b>6.7000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.1000e-004</b>	<b>0.0333</b>		<b>115.7266</b>	<b>115.7266</b>	<b>3.5000e-003</b>	<b>3.1300e-003</b>	<b>116.7460</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4291</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0540	0.0316	0.4717	1.1400e-003	0.0697	6.7000e-004	0.0703	0.0195	6.1000e-004	0.0202		115.7266	115.7266	3.5000e-003	3.1300e-003	116.7460
<b>Total</b>	<b>0.0540</b>	<b>0.0316</b>	<b>0.4717</b>	<b>1.1400e-003</b>	<b>0.0697</b>	<b>6.7000e-004</b>	<b>0.0703</b>	<b>0.0195</b>	<b>6.1000e-004</b>	<b>0.0202</b>		<b>115.7266</b>	<b>115.7266</b>	<b>3.5000e-003</b>	<b>3.1300e-003</b>	<b>116.7460</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8885</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
<b>Total</b>	<b>0.0498</b>	<b>0.0279</b>	<b>0.4321</b>	<b>1.1100e-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>		<b>111.9753</b>	<b>111.9753</b>	<b>3.1400e-003</b>	<b>2.8800e-003</b>	<b>112.9134</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4291</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.0697	6.3000e-004	0.0703	0.0195	5.8000e-004	0.0201		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
<b>Total</b>	<b>0.0498</b>	<b>0.0279</b>	<b>0.4321</b>	<b>1.1100e-003</b>	<b>0.0697</b>	<b>6.3000e-004</b>	<b>0.0703</b>	<b>0.0195</b>	<b>5.8000e-004</b>	<b>0.0201</b>		<b>111.9753</b>	<b>111.9753</b>	<b>3.1400e-003</b>	<b>2.8800e-003</b>	<b>112.9134</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1374</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0972	0.0569	0.8490	2.0600e-003	0.2218	1.2000e-003	0.2230	0.0588	1.1000e-003	0.0599		208.3079	208.3079	6.3000e-003	5.6300e-003	210.1428
<b>Total</b>	<b>0.0972</b>	<b>0.0569</b>	<b>0.8490</b>	<b>2.0600e-003</b>	<b>0.2218</b>	<b>1.2000e-003</b>	<b>0.2230</b>	<b>0.0588</b>	<b>1.1000e-003</b>	<b>0.0599</b>		<b>208.3079</b>	<b>208.3079</b>	<b>6.3000e-003</b>	<b>5.6300e-003</b>	<b>210.1428</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	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1374</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0972	0.0569	0.8490	2.0600e-003	0.1254	1.2000e-003	0.1266	0.0352	1.1000e-003	0.0363		208.3079	208.3079	6.3000e-003	5.6300e-003	210.1428
<b>Total</b>	<b>0.0972</b>	<b>0.0569</b>	<b>0.8490</b>	<b>2.0600e-003</b>	<b>0.1254</b>	<b>1.2000e-003</b>	<b>0.1266</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>		<b>208.3079</b>	<b>208.3079</b>	<b>6.3000e-003</b>	<b>5.6300e-003</b>	<b>210.1428</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>3.1245</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0897	0.0502	0.7778	1.9900e-003	0.2218	1.1300e-003	0.2229	0.0588	1.0400e-003	0.0599		201.5555	201.5555	5.6500e-003	5.1900e-003	203.2441
<b>Total</b>	<b>0.0897</b>	<b>0.0502</b>	<b>0.7778</b>	<b>1.9900e-003</b>	<b>0.2218</b>	<b>1.1300e-003</b>	<b>0.2229</b>	<b>0.0588</b>	<b>1.0400e-003</b>	<b>0.0599</b>		<b>201.5555</b>	<b>201.5555</b>	<b>5.6500e-003</b>	<b>5.1900e-003</b>	<b>203.2441</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	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>3.1245</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0897	0.0502	0.7778	1.9900e-003	0.1254	1.1300e-003	0.1265	0.0352	1.0400e-003	0.0362		201.5555	201.5555	5.6500e-003	5.1900e-003	203.2441
<b>Total</b>	<b>0.0897</b>	<b>0.0502</b>	<b>0.7778</b>	<b>1.9900e-003</b>	<b>0.1254</b>	<b>1.1300e-003</b>	<b>0.1265</b>	<b>0.0352</b>	<b>1.0400e-003</b>	<b>0.0362</b>		<b>201.5555</b>	<b>201.5555</b>	<b>5.6500e-003</b>	<b>5.1900e-003</b>	<b>203.2441</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	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
Congregate Care (Assisted Living)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Summer

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

General Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
High Turnover (Sit Down Restaurant)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Medical Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Non-Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Parking Lot	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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**

**Unmitigated**

	NaturalGas s 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					
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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					
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Unmitigated	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645		20.9609	20.9609	0.0201		21.4643
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>		<b>0.0645</b>	<b>0.0645</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645		20.9609	20.9609	0.0201		21.4643
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>		<b>0.0645</b>	<b>0.0645</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**Victorville Wellness Center PHASE 1 Construction**

**San Bernardino-Mojave Desert County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
General Office Building	2.24	1000sqft	0.05	2,240.00	0
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Parking Lot	39.00	Space	0.35	15,600.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	144.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	72.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2024		

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**Utility Company** Southern California Edison

**CO2 Intensity (lb/MWhr)** 390.98                      **CH4 Intensity (lb/MWhr)** 0.033                      **N2O Intensity (lb/MWhr)** 0.004

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

Project Characteristics -

Land Use - Land Use types accounting for all phase 1 buildings, parkings spaces, hardscapes, retention pond. Other Non-Asphalt accounts for all other spaces throughout project site, excluding approximate area of Phase 2 (2.22 acres)

Construction Phase - Construction, Paving, and Architectural Coating phases assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - No Hearths

Energy Use - Construction Only Model

Area Coating - Construction Only Model

Consumer Products - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	2/10/2023	3/10/2023
tblConstructionPhase	PhaseEndDate	2/24/2023	3/10/2023
tblConstructionPhase	PhaseStartDate	2/25/2023	4/9/2022
tblConstructionPhase	PhaseStartDate	2/11/2023	4/9/2022
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	6.62	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	28.48	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	195.77	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	11.06	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24NG	8,352.17	0.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

tblEnergyUse	T24NG	3.43	0.00
tblEnergyUse	T24NG	76.89	0.00
tblEnergyUse	T24NG	3.43	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	77.55	0.00
tblFireplaces	NumberNoFireplace	14.10	0.00
tblFireplaces	NumberWood	49.35	0.00
tblLandUse	LandUseSquareFeet	21,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	24,000.00	2,240.00
tblLandUse	LandUseSquareFeet	140.00	144.00
tblLandUse	LandUseSquareFeet	70.00	72.00
tblLandUse	LotAcreage	1.31	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	LotAcreage	1.50	0.05
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

tblSolidWaste	SolidWasteGenerationRate	128.66	0.00
tblSolidWaste	SolidWasteGenerationRate	5.21	0.00
tblSolidWaste	SolidWasteGenerationRate	34.27	0.00
tblSolidWaste	SolidWasteGenerationRate	15.55	0.00
tblVehicleTrips	ST_TR	2.93	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	122.40	0.00
tblVehicleTrips	ST_TR	8.57	0.00
tblVehicleTrips	SU_TR	3.15	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	142.64	0.00
tblVehicleTrips	SU_TR	1.42	0.00
tblVehicleTrips	WD_TR	2.60	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	112.18	0.00
tblVehicleTrips	WD_TR	34.80	0.00
tblWater	IndoorWaterUseRate	9,186,717.61	0.00
tblWater	IndoorWaterUseRate	995,308.99	0.00
tblWater	IndoorWaterUseRate	874,177.09	0.00
tblWater	IndoorWaterUseRate	180,691.97	0.00
tblWater	OutdoorWaterUseRate	5,791,626.32	0.00
tblWater	OutdoorWaterUseRate	610,028.09	0.00
tblWater	OutdoorWaterUseRate	55,798.54	0.00
tblWater	OutdoorWaterUseRate	34,417.52	0.00
tblWoodstoves	NumberCatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.5975	27.1290	33.0547	0.0639	7.1647	1.2957	7.9075	3.4465	1.2274	4.1298	0.0000	6,143.0257	6,143.0257	1.0609	0.1290	6,207.9977
2023	6.3183	25.0006	32.4722	0.0633	1.6670	1.1338	2.8008	0.4466	1.0737	1.5203	0.0000	6,079.2218	6,079.2218	1.0454	0.1223	6,141.7926
<b>Maximum</b>	<b>6.5975</b>	<b>27.1290</b>	<b>33.0547</b>	<b>0.0639</b>	<b>7.1647</b>	<b>1.2957</b>	<b>7.9075</b>	<b>3.4465</b>	<b>1.2274</b>	<b>4.1298</b>	<b>0.0000</b>	<b>6,143.0257</b>	<b>6,143.0257</b>	<b>1.0609</b>	<b>0.1290</b>	<b>6,207.9977</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.4480	22.1040	35.9832	0.0639	2.8087	1.3376	3.2941	1.3487	1.3363	1.8341	0.0000	6,143.0257	6,143.0257	1.0609	0.1290	6,207.9977
2023	5.3049	21.5511	35.4988	0.0633	0.9580	1.2920	2.2500	0.2726	1.2911	1.5637	0.0000	6,079.2218	6,079.2218	1.0454	0.1223	6,141.7926
<b>Maximum</b>	<b>5.4480</b>	<b>22.1040</b>	<b>35.9832</b>	<b>0.0639</b>	<b>2.8087</b>	<b>1.3376</b>	<b>3.2941</b>	<b>1.3487</b>	<b>1.3363</b>	<b>1.8341</b>	<b>0.0000</b>	<b>6,143.0257</b>	<b>6,143.0257</b>	<b>1.0609</b>	<b>0.1290</b>	<b>6,207.9977</b>

## Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	16.75	16.26	-9.09	0.00	57.35	-8.23	48.23	58.36	-14.18	39.86	0.00	0.00	0.00	0.00	0.00	0.00



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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	3/1/2022	3/28/2022	5	20	
2	Site Preparation	Site Preparation	3/29/2022	3/31/2022	5	3	
3	Grading	Grading	4/1/2022	4/8/2022	5	6	
4	Building Construction	Building Construction	4/9/2022	3/10/2023	5	240	
5	Paving	Paving	4/9/2022	3/10/2023	5	240	
6	Architectural Coating	Architectural Coating	4/9/2022	3/10/2023	5	240	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 1.76**

**Residential Indoor: 27,216; Residential Outdoor: 9,072; Non-Residential Indoor: 14,880; Non-Residential Outdoor: 4,960; Striped Parking Area: 4,617 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Site Preparation	Graders	1	8.00	187	0.41

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	137.00	29.00	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	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>		<b>0.8379</b>	<b>0.8379</b>		<b>0.7829</b>	<b>0.7829</b>		<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0439	0.0288	0.3413	9.0000e-004	0.1068	5.8000e-004	0.1074	0.0283	5.3000e-004	0.0289		90.8867	90.8867	3.1000e-003	2.8000e-003	91.7987
<b>Total</b>	<b>0.0439</b>	<b>0.0288</b>	<b>0.3413</b>	<b>9.0000e-004</b>	<b>0.1068</b>	<b>5.8000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.3000e-004</b>	<b>0.0289</b>		<b>90.8867</b>	<b>90.8867</b>	<b>3.1000e-003</b>	<b>2.8000e-003</b>	<b>91.7987</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	0.5621	9.6827	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>0.5621</b>	<b>9.6827</b>	<b>15.4154</b>	<b>0.0241</b>		<b>0.7182</b>	<b>0.7182</b>		<b>0.7182</b>	<b>0.7182</b>	<b>0.0000</b>	<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0439	0.0288	0.3413	9.0000e-004	0.0604	5.8000e-004	0.0610	0.0169	5.3000e-004	0.0175		90.8867	90.8867	3.1000e-003	2.8000e-003	91.7987
<b>Total</b>	<b>0.0439</b>	<b>0.0288</b>	<b>0.3413</b>	<b>9.0000e-004</b>	<b>0.0604</b>	<b>5.8000e-004</b>	<b>0.0610</b>	<b>0.0169</b>	<b>5.3000e-004</b>	<b>0.0175</b>		<b>90.8867</b>	<b>90.8867</b>	<b>3.1000e-003</b>	<b>2.8000e-003</b>	<b>91.7987</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5952</b>	<b>2.1859</b>	<b>0.1718</b>	<b>0.5476</b>	<b>0.7193</b>		<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0177	0.2100	5.5000e-004	0.0657	3.6000e-004	0.0661	0.0174	3.3000e-004	0.0178		55.9303	55.9303	1.9100e-003	1.7200e-003	56.4915
<b>Total</b>	<b>0.0270</b>	<b>0.0177</b>	<b>0.2100</b>	<b>5.5000e-004</b>	<b>0.0657</b>	<b>3.6000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.3000e-004</b>	<b>0.0178</b>		<b>55.9303</b>	<b>55.9303</b>	<b>1.9100e-003</b>	<b>1.7200e-003</b>	<b>56.4915</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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6016	9.4903	13.6431	0.0245		0.4988	0.4988		0.4988	0.4988	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>0.6016</b>	<b>9.4903</b>	<b>13.6431</b>	<b>0.0245</b>	<b>0.6204</b>	<b>0.4988</b>	<b>1.1191</b>	<b>0.0670</b>	<b>0.4988</b>	<b>0.5657</b>	<b>0.0000</b>	<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0177	0.2100	5.5000e-004	0.0372	3.6000e-004	0.0375	0.0104	3.3000e-004	0.0108		55.9303	55.9303	1.9100e-003	1.7200e-003	56.4915
<b>Total</b>	<b>0.0270</b>	<b>0.0177</b>	<b>0.2100</b>	<b>5.5000e-004</b>	<b>0.0372</b>	<b>3.6000e-004</b>	<b>0.0375</b>	<b>0.0104</b>	<b>3.3000e-004</b>	<b>0.0108</b>		<b>55.9303</b>	<b>55.9303</b>	<b>1.9100e-003</b>	<b>1.7200e-003</b>	<b>56.4915</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.7423</b>	<b>7.8249</b>	<b>3.4247</b>	<b>0.6829</b>	<b>4.1076</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0338	0.0222	0.2625	6.9000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		69.9128	69.9128	2.3800e-003	2.1500e-003	70.6144
<b>Total</b>	<b>0.0338</b>	<b>0.0222</b>	<b>0.2625</b>	<b>6.9000e-004</b>	<b>0.0822</b>	<b>4.4000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.1000e-004</b>	<b>0.0222</b>		<b>69.9128</b>	<b>69.9128</b>	<b>2.3800e-003</b>	<b>2.1500e-003</b>	<b>70.6144</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					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	0.5043	8.1720	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>0.5043</b>	<b>8.1720</b>	<b>12.1450</b>	<b>0.0206</b>	<b>2.7622</b>	<b>0.4850</b>	<b>3.2472</b>	<b>1.3357</b>	<b>0.4850</b>	<b>1.8207</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0338	0.0222	0.2625	6.9000e-004	0.0465	4.4000e-004	0.0469	0.0130	4.1000e-004	0.0134		69.9128	69.9128	2.3800e-003	2.1500e-003	70.6144
<b>Total</b>	<b>0.0338</b>	<b>0.0222</b>	<b>0.2625</b>	<b>6.9000e-004</b>	<b>0.0465</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0130</b>	<b>4.1000e-004</b>	<b>0.0134</b>		<b>69.9128</b>	<b>69.9128</b>	<b>2.3800e-003</b>	<b>2.1500e-003</b>	<b>70.6144</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.3873	0.4921	5.7000e-003	0.1965	0.0160	0.2125	0.0566	0.0153	0.0719		611.1677	611.1677	0.0164	0.0905	638.5361
Worker	0.4630	0.3038	3.5962	9.4800e-003	1.1254	6.0800e-003	1.1315	0.2985	5.6000e-003	0.3041		957.8056	957.8056	0.0326	0.0295	967.4166
<b>Total</b>	<b>0.5132</b>	<b>1.6912</b>	<b>4.0884</b>	<b>0.0152</b>	<b>1.3220</b>	<b>0.0221</b>	<b>1.3440</b>	<b>0.3551</b>	<b>0.0209</b>	<b>0.3760</b>		<b>1,568.9733</b>	<b>1,568.9733</b>	<b>0.0490</b>	<b>0.1200</b>	<b>1,605.9527</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	1.2264	11.8304	16.0050	0.0250		0.7028	0.7028		0.7028	0.7028	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.2264</b>	<b>11.8304</b>	<b>16.0050</b>	<b>0.0250</b>		<b>0.7028</b>	<b>0.7028</b>		<b>0.7028</b>	<b>0.7028</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.3873	0.4921	5.7000e-003	0.1266	0.0160	0.1426	0.0394	0.0153	0.0547		611.1677	611.1677	0.0164	0.0905	638.5361
Worker	0.4630	0.3038	3.5962	9.4800e-003	0.6364	6.0800e-003	0.6425	0.1785	5.6000e-003	0.1841		957.8056	957.8056	0.0326	0.0295	967.4166
<b>Total</b>	<b>0.5132</b>	<b>1.6912</b>	<b>4.0884</b>	<b>0.0152</b>	<b>0.7629</b>	<b>0.0221</b>	<b>0.7850</b>	<b>0.2179</b>	<b>0.0209</b>	<b>0.2388</b>		<b>1,568.9733</b>	<b>1,568.9733</b>	<b>0.0490</b>	<b>0.1200</b>	<b>1,605.9527</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		2,289.5233	2,289.5233	0.4330		2,300.3479
<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>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0323	1.1138	0.4466	5.4700e-003	0.1965	8.1100e-003	0.2046	0.0566	7.7500e-003	0.0643		587.0110	587.0110	0.0152	0.0867	613.2298
Worker	0.4281	0.2679	3.3033	9.1700e-003	1.1254	5.7200e-003	1.1311	0.2985	5.2600e-003	0.3038		927.0437	927.0437	0.0294	0.0272	935.8895
<b>Total</b>	<b>0.4604</b>	<b>1.3818</b>	<b>3.7499</b>	<b>0.0146</b>	<b>1.3219</b>	<b>0.0138</b>	<b>1.3358</b>	<b>0.3551</b>	<b>0.0130</b>	<b>0.3681</b>		<b>1,514.0547</b>	<b>1,514.0547</b>	<b>0.0446</b>	<b>0.1139</b>	<b>1,549.1193</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	1.1596	11.7033	15.9514	0.0250		0.6765	0.6765		0.6765	0.6765	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.1596</b>	<b>11.7033</b>	<b>15.9514</b>	<b>0.0250</b>		<b>0.6765</b>	<b>0.6765</b>		<b>0.6765</b>	<b>0.6765</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0323	1.1138	0.4466	5.4700e-003	0.1266	8.1100e-003	0.1347	0.0394	7.7500e-003	0.0472		587.0110	587.0110	0.0152	0.0867	613.2298
Worker	0.4281	0.2679	3.3033	9.1700e-003	0.6364	5.7200e-003	0.6421	0.1785	5.2600e-003	0.1837		927.0437	927.0437	0.0294	0.0272	935.8895
<b>Total</b>	<b>0.4604</b>	<b>1.3818</b>	<b>3.7499</b>	<b>0.0146</b>	<b>0.7629</b>	<b>0.0138</b>	<b>0.7768</b>	<b>0.2179</b>	<b>0.0130</b>	<b>0.2309</b>		<b>1,514.0547</b>	<b>1,514.0547</b>	<b>0.0446</b>	<b>0.1139</b>	<b>1,549.1193</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9495</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>		<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0507	0.0333	0.3938	1.0400e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333		104.8692	104.8692	3.5700e-003	3.2300e-003	105.9215
<b>Total</b>	<b>0.0507</b>	<b>0.0333</b>	<b>0.3938</b>	<b>1.0400e-003</b>	<b>0.1232</b>	<b>6.7000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.1000e-004</b>	<b>0.0333</b>		<b>104.8692</b>	<b>104.8692</b>	<b>3.5700e-003</b>	<b>3.2300e-003</b>	<b>105.9215</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4291</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0507	0.0333	0.3938	1.0400e-003	0.0697	6.7000e-004	0.0703	0.0195	6.1000e-004	0.0202		104.8692	104.8692	3.5700e-003	3.2300e-003	105.9215
<b>Total</b>	<b>0.0507</b>	<b>0.0333</b>	<b>0.3938</b>	<b>1.0400e-003</b>	<b>0.0697</b>	<b>6.7000e-004</b>	<b>0.0703</b>	<b>0.0195</b>	<b>6.1000e-004</b>	<b>0.0202</b>		<b>104.8692</b>	<b>104.8692</b>	<b>3.5700e-003</b>	<b>3.2300e-003</b>	<b>105.9215</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8885</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>



Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
<b>Total</b>	<b>0.0469</b>	<b>0.0293</b>	<b>0.3617</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>		<b>101.5011</b>	<b>101.5011</b>	<b>3.2200e-003</b>	<b>2.9800e-003</b>	<b>102.4697</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.3000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4291</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.0697	6.3000e-004	0.0703	0.0195	5.8000e-004	0.0201		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
<b>Total</b>	<b>0.0469</b>	<b>0.0293</b>	<b>0.3617</b>	<b>1.0000e-003</b>	<b>0.0697</b>	<b>6.3000e-004</b>	<b>0.0703</b>	<b>0.0195</b>	<b>5.8000e-004</b>	<b>0.0201</b>		<b>101.5011</b>	<b>101.5011</b>	<b>3.2200e-003</b>	<b>2.9800e-003</b>	<b>102.4697</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1374</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0913	0.0599	0.7088	1.8700e-003	0.2218	1.2000e-003	0.2230	0.0588	1.1000e-003	0.0599		188.7646	188.7646	6.4300e-003	5.8200e-003	190.6587
<b>Total</b>	<b>0.0913</b>	<b>0.0599</b>	<b>0.7088</b>	<b>1.8700e-003</b>	<b>0.2218</b>	<b>1.2000e-003</b>	<b>0.2230</b>	<b>0.0588</b>	<b>1.1000e-003</b>	<b>0.0599</b>		<b>188.7646</b>	<b>188.7646</b>	<b>6.4300e-003</b>	<b>5.8200e-003</b>	<b>190.6587</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	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>3.1374</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0913	0.0599	0.7088	1.8700e-003	0.1254	1.2000e-003	0.1266	0.0352	1.1000e-003	0.0363		188.7646	188.7646	6.4300e-003	5.8200e-003	190.6587
<b>Total</b>	<b>0.0913</b>	<b>0.0599</b>	<b>0.7088</b>	<b>1.8700e-003</b>	<b>0.1254</b>	<b>1.2000e-003</b>	<b>0.1266</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>		<b>188.7646</b>	<b>188.7646</b>	<b>6.4300e-003</b>	<b>5.8200e-003</b>	<b>190.6587</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>3.1245</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0844	0.0528	0.6510	1.8100e-003	0.2218	1.1300e-003	0.2229	0.0588	1.0400e-003	0.0599		182.7021	182.7021	5.8000e-003	5.3600e-003	184.4454
<b>Total</b>	<b>0.0844</b>	<b>0.0528</b>	<b>0.6510</b>	<b>1.8100e-003</b>	<b>0.2218</b>	<b>1.1300e-003</b>	<b>0.2229</b>	<b>0.0588</b>	<b>1.0400e-003</b>	<b>0.0599</b>		<b>182.7021</b>	<b>182.7021</b>	<b>5.8000e-003</b>	<b>5.3600e-003</b>	<b>184.4454</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	2.9328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>3.1245</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0844	0.0528	0.6510	1.8100e-003	0.1254	1.1300e-003	0.1265	0.0352	1.0400e-003	0.0362		182.7021	182.7021	5.8000e-003	5.3600e-003	184.4454
<b>Total</b>	<b>0.0844</b>	<b>0.0528</b>	<b>0.6510</b>	<b>1.8100e-003</b>	<b>0.1254</b>	<b>1.1300e-003</b>	<b>0.1265</b>	<b>0.0352</b>	<b>1.0400e-003</b>	<b>0.0362</b>		<b>182.7021</b>	<b>182.7021</b>	<b>5.8000e-003</b>	<b>5.3600e-003</b>	<b>184.4454</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
Congregate Care (Assisted Living)	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert County, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	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
Congregate Care (Assisted Living)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830



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

General Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
High Turnover (Sit Down Restaurant)	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Medical Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Non-Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Parking Lot	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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**

**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					
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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					
Congregate Care (Assisted Living)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643
Unmitigated	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645	0.0000	20.9609	20.9609	0.0201	0.0000	21.4643

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645		20.9609	20.9609	0.0201		21.4643
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>		<b>0.0645</b>	<b>0.0645</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3503	0.1340	11.6348	6.1000e-004		0.0645	0.0645		0.0645	0.0645		20.9609	20.9609	0.0201		21.4643
<b>Total</b>	<b>0.3503</b>	<b>0.1340</b>	<b>11.6348</b>	<b>6.1000e-004</b>		<b>0.0645</b>	<b>0.0645</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>20.9609</b>	<b>20.9609</b>	<b>0.0201</b>	<b>0.0000</b>	<b>21.4643</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Victorville Wellness Center PHASE 1 Construction - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Annual

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

**Victorville Wellness Center Construction PHASE 2**

**San Bernardino-Mojave Desert County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	0.45	1000sqft	0.01	448.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	504.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	312.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,225.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30
Parking Lot	22.00	Space	0.20	8,800.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,475.00	0
Other Non-Asphalt Surfaces	1.24	Acre	1.24	54,014.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Annual

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

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

Project Characteristics -

Land Use - Land uses accounting for Phase 2 proposed buildings, hardscapes, softscapes, parking (2 parking areas, 22 spaces proposed for one, and the space for 22 parking spaces per site plan), and remaining lot acreage for other non-asphalt

Construction Phase - Construction, Paving, and Architectural Coating phases combined as assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - Construction Only Model

Consumer Products - Construction Only Model

Area Coating - Construction Only Model

Energy Use - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00



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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00

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

tblConstructionPhase	PhaseEndDate	2/12/2024	3/11/2024
tblConstructionPhase	PhaseEndDate	2/26/2024	3/11/2024
tblConstructionPhase	PhaseStartDate	2/27/2024	4/11/2023
tblConstructionPhase	PhaseStartDate	2/13/2024	4/11/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	3.99	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.92	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	0.01	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	1.76	0.00
tblEnergyUse	T24E	199.85	0.00
tblEnergyUse	T24NG	13.68	0.00
tblEnergyUse	T24NG	22,256.94	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	16.50	0.00
tblFireplaces	NumberNoFireplace	3.00	0.00
tblFireplaces	NumberWood	10.50	0.00
tblLandUse	LandUseSquareFeet	54,000.00	9,600.00
tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	86.00	30.00
tblSolidWaste	SolidWasteGenerationRate	0.59	0.00
tblSolidWaste	SolidWasteGenerationRate	12.30	0.00

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

tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	20.25	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	22,072.06	0.00
tblWater	IndoorWaterUseRate	1,954,620.77	0.00
tblWater	OutdoorWaterUseRate	34,522.97	0.00
tblWater	OutdoorWaterUseRate	1,232,260.92	0.00
tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.4548	2.5120	3.0005	5.4800e-003	0.0927	0.1158	0.2086	0.0291	0.1096	0.1387	0.0000	472.7982	472.7982	0.0954	5.9400e-003	476.9528
2024	0.1124	0.5859	0.7555	1.3800e-003	0.0183	0.0256	0.0438	4.9200e-003	0.0242	0.0291	0.0000	118.8114	118.8114	0.0233	1.5500e-003	119.8568
<b>Maximum</b>	<b>0.4548</b>	<b>2.5120</b>	<b>3.0005</b>	<b>5.4800e-003</b>	<b>0.0927</b>	<b>0.1158</b>	<b>0.2086</b>	<b>0.0291</b>	<b>0.1096</b>	<b>0.1387</b>	<b>0.0000</b>	<b>472.7982</b>	<b>472.7982</b>	<b>0.0954</b>	<b>5.9400e-003</b>	<b>476.9528</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3463	2.0568	3.3222	5.4800e-003	0.0464	0.1308	0.1772	0.0149	0.1307	0.1456	0.0000	472.7977	472.7977	0.0954	5.9400e-003	476.9523
2024	0.0890	0.5129	0.8339	1.3800e-003	9.8300e-003	0.0319	0.0417	2.8500e-003	0.0319	0.0348	0.0000	118.8113	118.8113	0.0233	1.5500e-003	119.8566
<b>Maximum</b>	<b>0.3463</b>	<b>2.0568</b>	<b>3.3222</b>	<b>5.4800e-003</b>	<b>0.0464</b>	<b>0.1308</b>	<b>0.1772</b>	<b>0.0149</b>	<b>0.1307</b>	<b>0.1456</b>	<b>0.0000</b>	<b>472.7977</b>	<b>472.7977</b>	<b>0.0954</b>	<b>5.9400e-003</b>	<b>476.9523</b>

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**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	23.23	17.05	-10.65	0.00	49.36	-15.05	13.27	47.94	-21.60	-7.48	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2023	5-31-2023	0.7592	0.5802
2	6-1-2023	8-31-2023	0.9512	0.7848
3	9-1-2023	11-30-2023	0.9414	0.7768
4	12-1-2023	2-29-2024	0.9078	0.7708
5	3-1-2024	5-31-2024	0.1076	0.0928
		Highest	0.9512	0.7848

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.7400e-003</b>	<b>2.5700e-003</b>	<b>0.2231</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>0.3650</b>	<b>0.3650</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>0.3738</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.7400e-003</b>	<b>2.5700e-003</b>	<b>0.2231</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>0.3650</b>	<b>0.3650</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>0.3738</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	3/31/2023	5	3	
3	Grading	Grading	4/1/2023	4/10/2023	5	6	

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4	Building Construction	Building Construction	4/11/2023	3/11/2024	5	240
5	Paving	Paving	4/11/2023	3/11/2024	5	240
6	Architectural Coating	Architectural Coating	4/11/2023	3/11/2024	5	240

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 2.09**

**Residential Indoor: 19,440; Residential Outdoor: 6,480; Non-Residential Indoor: 672; Non-Residential Outdoor: 224; Striped Parking Area: 5,453 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
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
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	49.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads



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**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	tons/yr										MT/yr					
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
<b>Total</b>	<b>0.0147</b>	<b>0.1432</b>	<b>0.1346</b>	<b>2.4000e-004</b>		<b>6.7700e-003</b>	<b>6.7700e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>21.0866</b>	<b>21.0866</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>21.2202</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	3.2800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.8138	0.8138	3.0000e-005	2.0000e-005	0.8216
<b>Total</b>	<b>3.8000e-004</b>	<b>2.7000e-004</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8138</b>	<b>0.8138</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8216</b>

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**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6200e-003	0.0968	0.1542	2.4000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
<b>Total</b>	<b>5.6200e-003</b>	<b>0.0968</b>	<b>0.1542</b>	<b>2.4000e-004</b>		<b>7.1800e-003</b>	<b>7.1800e-003</b>		<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>21.0865</b>	<b>21.0865</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>21.2202</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	3.2800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.5000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.8138	0.8138	3.0000e-005	2.0000e-005	0.8216
<b>Total</b>	<b>3.8000e-004</b>	<b>2.7000e-004</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.8138</b>	<b>0.8138</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8216</b>

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**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	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.0000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0751	0.0751	0.0000	0.0000	0.0758
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0751</b>	<b>0.0751</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0758</b>

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**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	0.0142	0.0205	4.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0142</b>	<b>0.0205</b>	<b>4.0000e-005</b>	<b>9.3000e-004</b>	<b>7.5000e-004</b>	<b>1.6800e-003</b>	<b>1.0000e-004</b>	<b>7.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0751	0.0751	0.0000	0.0000	0.0758
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0751</b>	<b>0.0751</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0758</b>

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**3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0434</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.8100e-003</b>	<b>0.0231</b>	<b>0.0103</b>	<b>1.6700e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.6000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.1878	0.1878	1.0000e-005	1.0000e-005	0.1896
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1878</b>	<b>0.1878</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1896</b>

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**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	4.0100e-003	0.0000	4.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5100e-003	0.0245	0.0364	6.0000e-005		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>1.5100e-003</b>	<b>0.0245</b>	<b>0.0364</b>	<b>6.0000e-005</b>	<b>8.2900e-003</b>	<b>1.4600e-003</b>	<b>9.7500e-003</b>	<b>4.0100e-003</b>	<b>1.4600e-003</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.6000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1878	0.1878	1.0000e-005	1.0000e-005	0.1896
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1878</b>	<b>0.1878</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1896</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1619	1.2875	1.3433	2.3600e-003		0.0580	0.0580		0.0556	0.0556	0.0000	196.2785	196.2785	0.0371	0.0000	197.2064
<b>Total</b>	<b>0.1619</b>	<b>1.2875</b>	<b>1.3433</b>	<b>2.3600e-003</b>		<b>0.0580</b>	<b>0.0580</b>		<b>0.0556</b>	<b>0.0556</b>	<b>0.0000</b>	<b>196.2785</b>	<b>196.2785</b>	<b>0.0371</b>	<b>0.0000</b>	<b>197.2064</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9600e-003	0.0651	0.0258	3.2000e-004	0.0114	4.7000e-004	0.0118	3.2700e-003	4.5000e-004	3.7300e-003	0.0000	31.1939	31.1939	8.1000e-004	4.6100e-003	32.5874
Worker	0.0135	9.4700e-003	0.1169	3.2000e-004	0.0373	1.9000e-004	0.0375	9.9100e-003	1.8000e-004	0.0101	0.0000	28.9865	28.9865	9.1000e-004	8.6000e-004	29.2656
<b>Total</b>	<b>0.0154</b>	<b>0.0746</b>	<b>0.1426</b>	<b>6.4000e-004</b>	<b>0.0487</b>	<b>6.6000e-004</b>	<b>0.0493</b>	<b>0.0132</b>	<b>6.3000e-004</b>	<b>0.0138</b>	<b>0.0000</b>	<b>60.1804</b>	<b>60.1804</b>	<b>1.7200e-003</b>	<b>5.4700e-003</b>	<b>61.8530</b>

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**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1096	1.0492	1.5074	2.3600e-003		0.0639	0.0639		0.0639	0.0639	0.0000	196.2782	196.2782	0.0371	0.0000	197.2062
<b>Total</b>	<b>0.1096</b>	<b>1.0492</b>	<b>1.5074</b>	<b>2.3600e-003</b>		<b>0.0639</b>	<b>0.0639</b>		<b>0.0639</b>	<b>0.0639</b>	<b>0.0000</b>	<b>196.2782</b>	<b>196.2782</b>	<b>0.0371</b>	<b>0.0000</b>	<b>197.2062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9600e-003	0.0651	0.0258	3.2000e-004	6.9300e-003	4.7000e-004	7.4100e-003	2.1900e-003	4.5000e-004	2.6400e-003	0.0000	31.1939	31.1939	8.1000e-004	4.6100e-003	32.5874
Worker	0.0135	9.4700e-003	0.1169	3.2000e-004	0.0195	1.9000e-004	0.0197	5.5500e-003	1.8000e-004	5.7200e-003	0.0000	28.9865	28.9865	9.1000e-004	8.6000e-004	29.2656
<b>Total</b>	<b>0.0154</b>	<b>0.0746</b>	<b>0.1426</b>	<b>6.4000e-004</b>	<b>0.0265</b>	<b>6.6000e-004</b>	<b>0.0271</b>	<b>7.7400e-003</b>	<b>6.3000e-004</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>60.1804</b>	<b>60.1804</b>	<b>1.7200e-003</b>	<b>5.4700e-003</b>	<b>61.8530</b>



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**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0407	0.3270	0.3596	6.4000e-004		0.0137	0.0137		0.0131	0.0131	0.0000	52.9671	52.9671	9.8700e-003	0.0000	53.2137
<b>Total</b>	<b>0.0407</b>	<b>0.3270</b>	<b>0.3596</b>	<b>6.4000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0131</b>	<b>0.0131</b>	<b>0.0000</b>	<b>52.9671</b>	<b>52.9671</b>	<b>9.8700e-003</b>	<b>0.0000</b>	<b>53.2137</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	0.0177	6.8400e-003	9.0000e-005	3.0600e-003	1.3000e-004	3.1900e-003	8.8000e-004	1.2000e-004	1.0000e-003	0.0000	8.3016	8.3016	2.1000e-004	1.2300e-003	8.6723
Worker	3.3800e-003	2.2700e-003	0.0294	8.0000e-005	0.0101	5.0000e-005	0.0101	2.6700e-003	5.0000e-005	2.7200e-003	0.0000	7.5947	7.5947	2.2000e-004	2.2000e-004	7.6645
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0200</b>	<b>0.0362</b>	<b>1.7000e-004</b>	<b>0.0131</b>	<b>1.8000e-004</b>	<b>0.0133</b>	<b>3.5500e-003</b>	<b>1.7000e-004</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>15.8963</b>	<b>15.8963</b>	<b>4.3000e-004</b>	<b>1.4500e-003</b>	<b>16.3367</b>

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**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0282	0.2801	0.4057	6.4000e-004		0.0167	0.0167		0.0167	0.0167	0.0000	52.9670	52.9670	9.8700e-003	0.0000	53.2136
<b>Total</b>	<b>0.0282</b>	<b>0.2801</b>	<b>0.4057</b>	<b>6.4000e-004</b>		<b>0.0167</b>	<b>0.0167</b>		<b>0.0167</b>	<b>0.0167</b>	<b>0.0000</b>	<b>52.9670</b>	<b>52.9670</b>	<b>9.8700e-003</b>	<b>0.0000</b>	<b>53.2136</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	0.0177	6.8400e-003	9.0000e-005	1.8700e-003	1.3000e-004	2.0000e-003	5.9000e-004	1.2000e-004	7.1000e-004	0.0000	8.3016	8.3016	2.1000e-004	1.2300e-003	8.6723
Worker	3.3800e-003	2.2700e-003	0.0294	8.0000e-005	5.2700e-003	5.0000e-005	5.3200e-003	1.5000e-003	5.0000e-005	1.5400e-003	0.0000	7.5947	7.5947	2.2000e-004	2.2000e-004	7.6645
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0200</b>	<b>0.0362</b>	<b>1.7000e-004</b>	<b>7.1400e-003</b>	<b>1.8000e-004</b>	<b>7.3200e-003</b>	<b>2.0900e-003</b>	<b>1.7000e-004</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>15.8963</b>	<b>15.8963</b>	<b>4.3000e-004</b>	<b>1.4500e-003</b>	<b>16.3367</b>

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0832	0.8136	1.1041	1.6900e-003		0.0410	0.0410		0.0378	0.0378	0.0000	146.5959	146.5959	0.0465	0.0000	147.7574
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0840</b>	<b>0.8136</b>	<b>1.1041</b>	<b>1.6900e-003</b>		<b>0.0410</b>	<b>0.0410</b>		<b>0.0378</b>	<b>0.0378</b>	<b>0.0000</b>	<b>146.5959</b>	<b>146.5959</b>	<b>0.0465</b>	<b>0.0000</b>	<b>147.7574</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1300e-003	2.9000e-003	0.0358	1.0000e-004	0.0114	6.0000e-005	0.0115	3.0300e-003	5.0000e-005	3.0900e-003	0.0000	8.8734	8.8734	2.8000e-004	2.6000e-004	8.9589
<b>Total</b>	<b>4.1300e-003</b>	<b>2.9000e-003</b>	<b>0.0358</b>	<b>1.0000e-004</b>	<b>0.0114</b>	<b>6.0000e-005</b>	<b>0.0115</b>	<b>3.0300e-003</b>	<b>5.0000e-005</b>	<b>3.0900e-003</b>	<b>0.0000</b>	<b>8.8734</b>	<b>8.8734</b>	<b>2.8000e-004</b>	<b>2.6000e-004</b>	<b>8.9589</b>

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0398	0.6691	1.2260	1.6900e-003		0.0500	0.0500		0.0500	0.0500	0.0000	146.5957	146.5957	0.0465	0.0000	147.7572
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0406</b>	<b>0.6691</b>	<b>1.2260</b>	<b>1.6900e-003</b>		<b>0.0500</b>	<b>0.0500</b>		<b>0.0500</b>	<b>0.0500</b>	<b>0.0000</b>	<b>146.5957</b>	<b>146.5957</b>	<b>0.0465</b>	<b>0.0000</b>	<b>147.7572</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1300e-003	2.9000e-003	0.0358	1.0000e-004	5.9800e-003	6.0000e-005	6.0400e-003	1.7000e-003	5.0000e-005	1.7500e-003	0.0000	8.8734	8.8734	2.8000e-004	2.6000e-004	8.9589
<b>Total</b>	<b>4.1300e-003</b>	<b>2.9000e-003</b>	<b>0.0358</b>	<b>1.0000e-004</b>	<b>5.9800e-003</b>	<b>6.0000e-005</b>	<b>6.0400e-003</b>	<b>1.7000e-003</b>	<b>5.0000e-005</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>8.8734</b>	<b>8.8734</b>	<b>2.8000e-004</b>	<b>2.6000e-004</b>	<b>8.9589</b>

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

**3.6 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	tons/yr										MT/yr					
Off-Road	0.0215	0.2066	0.2985	4.6000e-004		0.0101	0.0101		9.3100e-003	9.3100e-003	0.0000	39.5625	39.5625	0.0125	0.0000	39.8759
Paving	2.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0217</b>	<b>0.2066</b>	<b>0.2985</b>	<b>4.6000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>9.3100e-003</b>	<b>9.3100e-003</b>	<b>0.0000</b>	<b>39.5625</b>	<b>39.5625</b>	<b>0.0125</b>	<b>0.0000</b>	<b>39.8759</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.0000e-004	9.0000e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3249	2.3249	7.0000e-005	7.0000e-005	2.3463
<b>Total</b>	<b>1.0300e-003</b>	<b>7.0000e-004</b>	<b>9.0000e-003</b>	<b>3.0000e-005</b>	<b>3.0800e-003</b>	<b>2.0000e-005</b>	<b>3.1000e-003</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>2.3249</b>	<b>2.3249</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3463</b>

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

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.1806	0.3308	4.6000e-004		0.0135	0.0135		0.0135	0.0135	0.0000	39.5624	39.5624	0.0125	0.0000	39.8759
Paving	2.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0109</b>	<b>0.1806</b>	<b>0.3308</b>	<b>4.6000e-004</b>		<b>0.0135</b>	<b>0.0135</b>		<b>0.0135</b>	<b>0.0135</b>	<b>0.0000</b>	<b>39.5624</b>	<b>39.5624</b>	<b>0.0125</b>	<b>0.0000</b>	<b>39.8759</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.0000e-004	9.0000e-003	3.0000e-005	1.6100e-003	2.0000e-005	1.6300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	2.3249	2.3249	7.0000e-005	7.0000e-005	2.3463
<b>Total</b>	<b>1.0300e-003</b>	<b>7.0000e-004</b>	<b>9.0000e-003</b>	<b>3.0000e-005</b>	<b>1.6100e-003</b>	<b>2.0000e-005</b>	<b>1.6300e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.3249</b>	<b>2.3249</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.3463</b>

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1472					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.1231	0.1712	2.8000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	24.1283	24.1283	1.4400e-003	0.0000	24.1643
<b>Total</b>	<b>0.1653</b>	<b>0.1231</b>	<b>0.1712</b>	<b>2.8000e-004</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>24.1283</b>	<b>24.1283</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>24.1643</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.9300e-003	0.0239	6.0000e-005	7.6200e-003	4.0000e-005	7.6500e-003	2.0200e-003	4.0000e-005	2.0600e-003	0.0000	5.9156	5.9156	1.9000e-004	1.8000e-004	5.9726
<b>Total</b>	<b>2.7500e-003</b>	<b>1.9300e-003</b>	<b>0.0239</b>	<b>6.0000e-005</b>	<b>7.6200e-003</b>	<b>4.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>5.9156</b>	<b>5.9156</b>	<b>1.9000e-004</b>	<b>1.8000e-004</b>	<b>5.9726</b>

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1472					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.1231	0.1712	2.8000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	24.1282	24.1282	1.4400e-003	0.0000	24.1643
<b>Total</b>	<b>0.1653</b>	<b>0.1231</b>	<b>0.1712</b>	<b>2.8000e-004</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>24.1282</b>	<b>24.1282</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>24.1643</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.9300e-003	0.0239	6.0000e-005	3.9900e-003	4.0000e-005	4.0300e-003	1.1300e-003	4.0000e-005	1.1700e-003	0.0000	5.9156	5.9156	1.9000e-004	1.8000e-004	5.9726
<b>Total</b>	<b>2.7500e-003</b>	<b>1.9300e-003</b>	<b>0.0239</b>	<b>6.0000e-005</b>	<b>3.9900e-003</b>	<b>4.0000e-005</b>	<b>4.0300e-003</b>	<b>1.1300e-003</b>	<b>4.0000e-005</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>5.9156</b>	<b>5.9156</b>	<b>1.9000e-004</b>	<b>1.8000e-004</b>	<b>5.9726</b>



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

**3.7 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	tons/yr										MT/yr					
Archit. Coating	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6100e-003	0.0311	0.0462	8.0000e-005		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	6.5108	6.5108	3.7000e-004	0.0000	6.5200
<b>Total</b>	<b>0.0443</b>	<b>0.0311</b>	<b>0.0462</b>	<b>8.0000e-005</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>6.5108</b>	<b>6.5108</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>6.5200</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.6000e-004	6.0000e-003	2.0000e-005	2.0500e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5499	1.5499	5.0000e-005	4.0000e-005	1.5642
<b>Total</b>	<b>6.9000e-004</b>	<b>4.6000e-004</b>	<b>6.0000e-003</b>	<b>2.0000e-005</b>	<b>2.0500e-003</b>	<b>1.0000e-005</b>	<b>2.0700e-003</b>	<b>5.5000e-004</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.5499</b>	<b>1.5499</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5642</b>

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

**3.7 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6100e-003	0.0311	0.0462	8.0000e-005		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	6.5108	6.5108	3.7000e-004	0.0000	6.5200
<b>Total</b>	<b>0.0443</b>	<b>0.0311</b>	<b>0.0462</b>	<b>8.0000e-005</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>6.5108</b>	<b>6.5108</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>6.5200</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.6000e-004	6.0000e-003	2.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	1.5499	1.5499	5.0000e-005	4.0000e-005	1.5642
<b>Total</b>	<b>6.9000e-004</b>	<b>4.6000e-004</b>	<b>6.0000e-003</b>	<b>2.0000e-005</b>	<b>1.0800e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.5499</b>	<b>1.5499</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5642</b>



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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**







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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**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
Category	tons/yr										MT/yr					
Mitigated	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738
Unmitigated	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738
<b>Total</b>	<b>6.7400e-003</b>	<b>2.5700e-003</b>	<b>0.2231</b>	<b>1.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>0.3650</b>	<b>0.3650</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>0.3738</b>

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**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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.7400e-003	2.5700e-003	0.2231	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3650	0.3650	3.5000e-004	0.0000	0.3738
<b>Total</b>	<b>6.7400e-003</b>	<b>2.5700e-003</b>	<b>0.2231</b>	<b>1.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>0.3650</b>	<b>0.3650</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>0.3738</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Annual

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**Victorville Wellness Center Construction PHASE 2**

**San Bernardino-Mojave Desert County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	0.45	1000sqft	0.01	448.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	504.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	312.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,225.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30
Parking Lot	22.00	Space	0.20	8,800.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,475.00	0
Other Non-Asphalt Surfaces	1.24	Acre	1.24	54,014.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

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

Project Characteristics -

Land Use - Land uses accounting for Phase 2 proposed buildings, hardscapes, softscapes, parking (2 parking areas, 22 spaces proposed for one, and the space for 22 parking spaces per site plan), and remaining lot acreage for other non-asphalt

Construction Phase - Construction, Paving, and Architectural Coating phases combined as assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - Construction Only Model

Consumer Products - Construction Only Model

Area Coating - Construction Only Model

Energy Use - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

tblConstructionPhase	PhaseEndDate	2/12/2024	3/11/2024
tblConstructionPhase	PhaseEndDate	2/26/2024	3/11/2024
tblConstructionPhase	PhaseStartDate	2/27/2024	4/11/2023
tblConstructionPhase	PhaseStartDate	2/13/2024	4/11/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	3.99	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.92	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	0.01	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	1.76	0.00
tblEnergyUse	T24E	199.85	0.00
tblEnergyUse	T24NG	13.68	0.00
tblEnergyUse	T24NG	22,256.94	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	16.50	0.00
tblFireplaces	NumberNoFireplace	3.00	0.00
tblFireplaces	NumberWood	10.50	0.00
tblLandUse	LandUseSquareFeet	54,000.00	9,600.00
tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	86.00	30.00
tblSolidWaste	SolidWasteGenerationRate	0.59	0.00
tblSolidWaste	SolidWasteGenerationRate	12.30	0.00

## Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	20.25	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	22,072.06	0.00
tblWater	IndoorWaterUseRate	1,954,620.77	0.00
tblWater	OutdoorWaterUseRate	34,522.97	0.00
tblWater	OutdoorWaterUseRate	1,232,260.92	0.00
tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	4.6192	24.3290	30.1104	0.0547	7.1647	1.1264	7.7695	3.4465	1.0667	4.0029	0.0000	5,196.8893	5,196.8893	1.0168	0.0679	5,242.5395
2024	4.4358	22.9284	29.8663	0.0545	0.7299	1.0026	1.7325	0.1964	0.9488	1.1452	0.0000	5,176.0975	5,176.0975	1.0076	0.0661	5,220.9949
<b>Maximum</b>	<b>4.6192</b>	<b>24.3290</b>	<b>30.1104</b>	<b>0.0547</b>	<b>7.1647</b>	<b>1.1264</b>	<b>7.7695</b>	<b>3.4465</b>	<b>1.0667</b>	<b>4.0029</b>	<b>0.0000</b>	<b>5,196.8893</b>	<b>5,196.8893</b>	<b>1.0168</b>	<b>0.0679</b>	<b>5,242.5395</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	3.6058	20.2787	33.1370	0.0547	2.8051	1.2846	3.2905	1.3478	1.2841	1.8332	0.0000	5,196.8893	5,196.8893	1.0168	0.0679	5,242.5395
2024	3.5207	20.0659	32.9416	0.0545	0.3915	1.2514	1.6430	0.1133	1.2510	1.3643	0.0000	5,176.0975	5,176.0975	1.0076	0.0661	5,220.9949
<b>Maximum</b>	<b>3.6058</b>	<b>20.2787</b>	<b>33.1370</b>	<b>0.0547</b>	<b>2.8051</b>	<b>1.2846</b>	<b>3.2905</b>	<b>1.3478</b>	<b>1.2841</b>	<b>1.8332</b>	<b>0.0000</b>	<b>5,196.8893</b>	<b>5,196.8893</b>	<b>1.0168</b>	<b>0.0679</b>	<b>5,242.5395</b>

## Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	21.30	14.63	-10.17	0.00	59.51	-19.12	48.08	59.89	-25.77	37.89	0.00	0.00	0.00	0.00	0.00	0.00

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	3/31/2023	5	3	
3	Grading	Grading	4/1/2023	4/10/2023	5	6	
4	Building Construction	Building Construction	4/11/2023	3/11/2024	5	240	
5	Paving	Paving	4/11/2023	3/11/2024	5	240	
6	Architectural Coating	Architectural Coating	4/11/2023	3/11/2024	5	240	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 2.09**

**Residential Indoor: 19,440; Residential Outdoor: 6,480; Non-Residential Indoor: 672; Non-Residential Outdoor: 224; Striped Parking Area: 5,453 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	49.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0242	0.3745	9.6000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		97.0453	97.0453	2.7200e-003	2.5000e-003	97.8583
<b>Total</b>	<b>0.0432</b>	<b>0.0242</b>	<b>0.3745</b>	<b>9.6000e-004</b>	<b>0.1068</b>	<b>5.4000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>5.0000e-004</b>	<b>0.0288</b>		<b>97.0453</b>	<b>97.0453</b>	<b>2.7200e-003</b>	<b>2.5000e-003</b>	<b>97.8583</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	0.5621	9.6827	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>0.5621</b>	<b>9.6827</b>	<b>15.4154</b>	<b>0.0241</b>		<b>0.7182</b>	<b>0.7182</b>		<b>0.7182</b>	<b>0.7182</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0242	0.3745	9.6000e-004	0.0558	5.4000e-004	0.0563	0.0158	5.0000e-004	0.0163		97.0453	97.0453	2.7200e-003	2.5000e-003	97.8583
<b>Total</b>	<b>0.0432</b>	<b>0.0242</b>	<b>0.3745</b>	<b>9.6000e-004</b>	<b>0.0558</b>	<b>5.4000e-004</b>	<b>0.0563</b>	<b>0.0158</b>	<b>5.0000e-004</b>	<b>0.0163</b>		<b>97.0453</b>	<b>97.0453</b>	<b>2.7200e-003</b>	<b>2.5000e-003</b>	<b>97.8583</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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5419</b>	<b>2.1326</b>	<b>0.1718</b>	<b>0.4985</b>	<b>0.6703</b>		<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0149	0.2305	5.9000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205
<b>Total</b>	<b>0.0266</b>	<b>0.0149</b>	<b>0.2305</b>	<b>5.9000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.1000e-004</b>	<b>0.0177</b>		<b>59.7202</b>	<b>59.7202</b>	<b>1.6700e-003</b>	<b>1.5400e-003</b>	<b>60.2205</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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6016	9.4903	13.6431	0.0245		0.4988	0.4988		0.4988	0.4988	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>0.6016</b>	<b>9.4903</b>	<b>13.6431</b>	<b>0.0245</b>	<b>0.6204</b>	<b>0.4988</b>	<b>1.1191</b>	<b>0.0670</b>	<b>0.4988</b>	<b>0.5657</b>	<b>0.0000</b>	<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0149	0.2305	5.9000e-004	0.0343	3.3000e-004	0.0346	9.7200e-003	3.1000e-004	0.0100		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205
<b>Total</b>	<b>0.0266</b>	<b>0.0149</b>	<b>0.2305</b>	<b>5.9000e-004</b>	<b>0.0343</b>	<b>3.3000e-004</b>	<b>0.0346</b>	<b>9.7200e-003</b>	<b>3.1000e-004</b>	<b>0.0100</b>		<b>59.7202</b>	<b>59.7202</b>	<b>1.6700e-003</b>	<b>1.5400e-003</b>	<b>60.2205</b>

**3.4 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.6044</b>	<b>7.6869</b>	<b>3.4247</b>	<b>0.5560</b>	<b>3.9807</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
<b>Total</b>	<b>0.0332</b>	<b>0.0186</b>	<b>0.2881</b>	<b>7.4000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>74.6502</b>	<b>74.6502</b>	<b>2.0900e-003</b>	<b>1.9200e-003</b>	<b>75.2756</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					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	0.5043	8.1720	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>0.5043</b>	<b>8.1720</b>	<b>12.1450</b>	<b>0.0206</b>	<b>2.7622</b>	<b>0.4850</b>	<b>3.2472</b>	<b>1.3357</b>	<b>0.4850</b>	<b>1.8207</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0429	4.2000e-004	0.0433	0.0122	3.8000e-004	0.0125		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
<b>Total</b>	<b>0.0332</b>	<b>0.0186</b>	<b>0.2881</b>	<b>7.4000e-004</b>	<b>0.0429</b>	<b>4.2000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.8000e-004</b>	<b>0.0125</b>		<b>74.6502</b>	<b>74.6502</b>	<b>2.0900e-003</b>	<b>1.9200e-003</b>	<b>75.2756</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		2,289.5233	2,289.5233	0.4330		2,300.3479
<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>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0215	0.6547	0.2690	3.3900e-003	0.1220	5.0100e-003	0.1270	0.0351	4.7900e-003	0.0399		363.5139	363.5139	9.4900e-003	0.0537	379.7419
Worker	0.1628	0.0911	1.4116	3.6200e-003	0.4025	2.0400e-003	0.4046	0.1068	1.8800e-003	0.1087		365.7859	365.7859	0.0103	9.4200e-003	368.8504
<b>Total</b>	<b>0.1842</b>	<b>0.7458</b>	<b>1.6806</b>	<b>7.0100e-003</b>	<b>0.5245</b>	<b>7.0500e-003</b>	<b>0.5316</b>	<b>0.1419</b>	<b>6.6700e-003</b>	<b>0.1486</b>		<b>729.2999</b>	<b>729.2999</b>	<b>0.0198</b>	<b>0.0631</b>	<b>748.5923</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	1.1596	11.1025	15.9514	0.0250		0.6765	0.6765		0.6765	0.6765	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.1596</b>	<b>11.1025</b>	<b>15.9514</b>	<b>0.0250</b>		<b>0.6765</b>	<b>0.6765</b>		<b>0.6765</b>	<b>0.6765</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0215	0.6547	0.2690	3.3900e-003	0.0742	5.0100e-003	0.0792	0.0234	4.7900e-003	0.0282		363.5139	363.5139	9.4900e-003	0.0537	379.7419
Worker	0.1628	0.0911	1.4116	3.6200e-003	0.2101	2.0400e-003	0.2122	0.0595	1.8800e-003	0.0614		365.7859	365.7859	0.0103	9.4200e-003	368.8504
<b>Total</b>	<b>0.1842</b>	<b>0.7458</b>	<b>1.6806</b>	<b>7.0100e-003</b>	<b>0.2843</b>	<b>7.0500e-003</b>	<b>0.2914</b>	<b>0.0829</b>	<b>6.6700e-003</b>	<b>0.0896</b>		<b>729.2999</b>	<b>729.2999</b>	<b>0.0198</b>	<b>0.0631</b>	<b>748.5923</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		2,289.6541	2,289.6541	0.4265		2,300.3154
<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>		<b>2,289.6541</b>	<b>2,289.6541</b>	<b>0.4265</b>		<b>2,300.3154</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.6607	0.2645	3.3400e-003	0.1220	4.9400e-003	0.1269	0.0351	4.7200e-003	0.0398		358.5102	358.5102	9.2000e-003	0.0529	374.5087
Worker	0.1510	0.0811	1.3142	3.5100e-003	0.4025	1.9600e-003	0.4045	0.1068	1.8000e-003	0.1086		355.1062	355.1062	9.3000e-003	8.7500e-003	357.9474
<b>Total</b>	<b>0.1720</b>	<b>0.7418</b>	<b>1.5787</b>	<b>6.8500e-003</b>	<b>0.5245</b>	<b>6.9000e-003</b>	<b>0.5314</b>	<b>0.1419</b>	<b>6.5200e-003</b>	<b>0.1484</b>		<b>713.6164</b>	<b>713.6164</b>	<b>0.0185</b>	<b>0.0617</b>	<b>732.4561</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	1.1038	10.9832	15.9087	0.0250		0.6535	0.6535		0.6535	0.6535	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
<b>Total</b>	<b>1.1038</b>	<b>10.9832</b>	<b>15.9087</b>	<b>0.0250</b>		<b>0.6535</b>	<b>0.6535</b>		<b>0.6535</b>	<b>0.6535</b>	<b>0.0000</b>	<b>2,289.6541</b>	<b>2,289.6541</b>	<b>0.4265</b>		<b>2,300.3154</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0210	0.6607	0.2645	3.3400e-003	0.0742	4.9400e-003	0.0791	0.0234	4.7200e-003	0.0281		358.5102	358.5102	9.2000e-003	0.0529	374.5087
Worker	0.1510	0.0811	1.3142	3.5100e-003	0.2101	1.9600e-003	0.2121	0.0595	1.8000e-003	0.0613		355.1062	355.1062	9.3000e-003	8.7500e-003	357.9474
<b>Total</b>	<b>0.1720</b>	<b>0.7418</b>	<b>1.5787</b>	<b>6.8500e-003</b>	<b>0.2843</b>	<b>6.9000e-003</b>	<b>0.2912</b>	<b>0.0829</b>	<b>6.5200e-003</b>	<b>0.0895</b>		<b>713.6164</b>	<b>713.6164</b>	<b>0.0185</b>	<b>0.0617</b>	<b>732.4561</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8886</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
<b>Total</b>	<b>0.0498</b>	<b>0.0279</b>	<b>0.4321</b>	<b>1.1100e-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>		<b>111.9753</b>	<b>111.9753</b>	<b>3.1400e-003</b>	<b>2.8800e-003</b>	<b>112.9134</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4292</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.0643	6.3000e-004	0.0650	0.0182	5.8000e-004	0.0188		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
<b>Total</b>	<b>0.0498</b>	<b>0.0279</b>	<b>0.4321</b>	<b>1.1100e-003</b>	<b>0.0643</b>	<b>6.3000e-004</b>	<b>0.0650</b>	<b>0.0182</b>	<b>5.8000e-004</b>	<b>0.0188</b>		<b>111.9753</b>	<b>111.9753</b>	<b>3.1400e-003</b>	<b>2.8800e-003</b>	<b>112.9134</b>

**3.6 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		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8509</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>		<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.6 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0248	0.4023	1.0800e-003	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332		108.7060	108.7060	2.8500e-003	2.6800e-003	109.5757
<b>Total</b>	<b>0.0462</b>	<b>0.0248</b>	<b>0.4023</b>	<b>1.0800e-003</b>	<b>0.1232</b>	<b>6.0000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.5000e-004</b>	<b>0.0332</b>		<b>108.7060</b>	<b>108.7060</b>	<b>2.8500e-003</b>	<b>2.6800e-003</b>	<b>109.5757</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4292</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.6 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0248	0.4023	1.0800e-003	0.0643	6.0000e-004	0.0649	0.0182	5.5000e-004	0.0188		108.7060	108.7060	2.8500e-003	2.6800e-003	109.5757
<b>Total</b>	<b>0.0462</b>	<b>0.0248</b>	<b>0.4023</b>	<b>1.0800e-003</b>	<b>0.0643</b>	<b>6.0000e-004</b>	<b>0.0649</b>	<b>0.0182</b>	<b>5.5000e-004</b>	<b>0.0188</b>		<b>108.7060</b>	<b>108.7060</b>	<b>2.8500e-003</b>	<b>2.6800e-003</b>	<b>109.5757</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>1.7497</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
<b>Total</b>	<b>0.0332</b>	<b>0.0186</b>	<b>0.2881</b>	<b>7.4000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>74.6502</b>	<b>74.6502</b>	<b>2.0900e-003</b>	<b>1.9200e-003</b>	<b>75.2756</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	1.5580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>1.7497</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.7 Architectural Coating - 2023**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0429	4.2000e-004	0.0433	0.0122	3.8000e-004	0.0125		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
<b>Total</b>	<b>0.0332</b>	<b>0.0186</b>	<b>0.2881</b>	<b>7.4000e-004</b>	<b>0.0429</b>	<b>4.2000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.8000e-004</b>	<b>0.0125</b>		<b>74.6502</b>	<b>74.6502</b>	<b>2.0900e-003</b>	<b>1.9200e-003</b>	<b>75.2756</b>

**3.7 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	1.5580					0.0000	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		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>1.7388</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>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.7 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0308	0.0165	0.2682	7.2000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		72.4707	72.4707	1.9000e-003	1.7900e-003	73.0505
<b>Total</b>	<b>0.0308</b>	<b>0.0165</b>	<b>0.2682</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>4.0000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.7000e-004</b>	<b>0.0222</b>		<b>72.4707</b>	<b>72.4707</b>	<b>1.9000e-003</b>	<b>1.7900e-003</b>	<b>73.0505</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	1.5580					0.0000	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	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>1.7388</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>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

**3.7 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0308	0.0165	0.2682	7.2000e-004	0.0429	4.0000e-004	0.0433	0.0122	3.7000e-004	0.0125		72.4707	72.4707	1.9000e-003	1.7900e-003	73.0505
<b>Total</b>	<b>0.0308</b>	<b>0.0165</b>	<b>0.2682</b>	<b>7.2000e-004</b>	<b>0.0429</b>	<b>4.0000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.7000e-004</b>	<b>0.0125</b>		<b>72.4707</b>	<b>72.4707</b>	<b>1.9000e-003</b>	<b>1.7900e-003</b>	<b>73.0505</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	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
Junior College (2yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Summer

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

Parking Lot	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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**

**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					
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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					
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Unmitigated	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137		4.4708	4.4708	4.3000e-003		4.5784
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137		4.4708	4.4708	4.3000e-003		4.5784
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**Victorville Wellness Center Construction PHASE 2**

**San Bernardino-Mojave Desert County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	0.45	1000sqft	0.01	448.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	504.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	312.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,225.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30
Parking Lot	22.00	Space	0.20	8,800.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,475.00	0
Other Non-Asphalt Surfaces	1.24	Acre	1.24	54,014.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

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

Project Characteristics -

Land Use - Land uses accounting for Phase 2 proposed buildings, hardscapes, softscapes, parking (2 parking areas, 22 spaces proposed for one, and the space for 22 parking spaces per site plan), and remaining lot acreage for other non-asphalt

Construction Phase - Construction, Paving, and Architectural Coating phases combined as assumed to occur simultaneously

Vehicle Trips - Construction Only Model

Woodstoves - Construction Only Model

Consumer Products - Construction Only Model

Area Coating - Construction Only Model

Energy Use - Construction Only Model

Water And Wastewater - Construction Only Model

Solid Waste - Construction Only Model

Construction Off-road Equipment Mitigation - Tier 3 per MM 8a-1 of Old Town Specific Plan area regulations, MDAQMD Rule 403 applied, 12% moisture content per ASTM method D-2216, 55 percent PM reduction for trackout based on SJVAPCD Rule 8041, EPA NSCEP for catalyst reduction

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	OxidationCatalyst	0.00	20.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	NumDays	220.00	240.00
tblConstructionPhase	NumDays	10.00	240.00



## Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

tblConstructionPhase	PhaseEndDate	2/12/2024	3/11/2024
tblConstructionPhase	PhaseEndDate	2/26/2024	3/11/2024
tblConstructionPhase	PhaseStartDate	2/27/2024	4/11/2023
tblConstructionPhase	PhaseStartDate	2/13/2024	4/11/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	3.99	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	1.92	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	0.01	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	1.76	0.00
tblEnergyUse	T24E	199.85	0.00
tblEnergyUse	T24NG	13.68	0.00
tblEnergyUse	T24NG	22,256.94	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	16.50	0.00
tblFireplaces	NumberNoFireplace	3.00	0.00
tblFireplaces	NumberWood	10.50	0.00
tblLandUse	LandUseSquareFeet	54,000.00	9,600.00
tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	86.00	30.00
tblSolidWaste	SolidWasteGenerationRate	0.59	0.00
tblSolidWaste	SolidWasteGenerationRate	12.30	0.00

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	20.25	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	22,072.06	0.00
tblWater	IndoorWaterUseRate	1,954,620.77	0.00
tblWater	OutdoorWaterUseRate	34,522.97	0.00
tblWater	OutdoorWaterUseRate	1,232,260.92	0.00
tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	4.6032	24.3728	29.7711	0.0542	7.1647	1.1264	7.7695	3.4465	1.0668	4.0029	0.0000	5,146.0545	5,146.0545	1.0171	0.0685	5,191.9006
2024	4.4212	22.9716	29.5536	0.0540	0.7299	1.0026	1.7325	0.1964	0.9488	1.1452	0.0000	5,126.8722	5,126.8722	1.0079	0.0667	5,171.9530
<b>Maximum</b>	<b>4.6032</b>	<b>24.3728</b>	<b>29.7711</b>	<b>0.0542</b>	<b>7.1647</b>	<b>1.1264</b>	<b>7.7695</b>	<b>3.4465</b>	<b>1.0668</b>	<b>4.0029</b>	<b>0.0000</b>	<b>5,146.0545</b>	<b>5,146.0545</b>	<b>1.0171</b>	<b>0.0685</b>	<b>5,191.9006</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	3.5897	20.3225	32.7977	0.0542	2.8051	1.2846	3.2905	1.3478	1.2841	1.8332	0.0000	5,146.0545	5,146.0545	1.0171	0.0685	5,191.9006
2024	3.5062	20.1091	32.6289	0.0540	0.3915	1.2515	1.6430	0.1133	1.2510	1.3643	0.0000	5,126.8722	5,126.8722	1.0079	0.0667	5,171.9530
<b>Maximum</b>	<b>3.5897</b>	<b>20.3225</b>	<b>32.7977</b>	<b>0.0542</b>	<b>2.8051</b>	<b>1.2846</b>	<b>3.2905</b>	<b>1.3478</b>	<b>1.2841</b>	<b>1.8332</b>	<b>0.0000</b>	<b>5,146.0545</b>	<b>5,146.0545</b>	<b>1.0171</b>	<b>0.0685</b>	<b>5,191.9006</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	3/1/2023	3/28/2023	5	20	
2	Site Preparation	Site Preparation	3/29/2023	3/31/2023	5	3	
3	Grading	Grading	4/1/2023	4/10/2023	5	6	
4	Building Construction	Building Construction	4/11/2023	3/11/2024	5	240	
5	Paving	Paving	4/11/2023	3/11/2024	5	240	
6	Architectural Coating	Architectural Coating	4/11/2023	3/11/2024	5	240	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 2.09**

**Residential Indoor: 19,440; Residential Outdoor: 6,480; Non-Residential Indoor: 672; Non-Residential Outdoor: 224; Striped Parking Area: 5,453 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**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
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	49.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

Use Oxidation Catalyst for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0406	0.0254	0.3135	8.7000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		87.9677	87.9677	2.7900e-003	2.5800e-003	88.8070
<b>Total</b>	<b>0.0406</b>	<b>0.0254</b>	<b>0.3135</b>	<b>8.7000e-004</b>	<b>0.1068</b>	<b>5.4000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>5.0000e-004</b>	<b>0.0288</b>		<b>87.9677</b>	<b>87.9677</b>	<b>2.7900e-003</b>	<b>2.5800e-003</b>	<b>88.8070</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	0.5621	9.6827	15.4154	0.0241		0.7182	0.7182		0.7182	0.7182	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>0.5621</b>	<b>9.6827</b>	<b>15.4154</b>	<b>0.0241</b>		<b>0.7182</b>	<b>0.7182</b>		<b>0.7182</b>	<b>0.7182</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0406	0.0254	0.3135	8.7000e-004	0.0558	5.4000e-004	0.0563	0.0158	5.0000e-004	0.0163		87.9677	87.9677	2.7900e-003	2.5800e-003	88.8070
<b>Total</b>	<b>0.0406</b>	<b>0.0254</b>	<b>0.3135</b>	<b>8.7000e-004</b>	<b>0.0558</b>	<b>5.4000e-004</b>	<b>0.0563</b>	<b>0.0158</b>	<b>5.0000e-004</b>	<b>0.0163</b>		<b>87.9677</b>	<b>87.9677</b>	<b>2.7900e-003</b>	<b>2.5800e-003</b>	<b>88.8070</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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5419</b>	<b>2.1326</b>	<b>0.1718</b>	<b>0.4985</b>	<b>0.6703</b>		<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0250	0.0157	0.1929	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505
<b>Total</b>	<b>0.0250</b>	<b>0.0157</b>	<b>0.1929</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>3.3000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.1000e-004</b>	<b>0.0177</b>		<b>54.1339</b>	<b>54.1339</b>	<b>1.7200e-003</b>	<b>1.5900e-003</b>	<b>54.6505</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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6016	9.4903	13.6431	0.0245		0.4988	0.4988		0.4988	0.4988	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>0.6016</b>	<b>9.4903</b>	<b>13.6431</b>	<b>0.0245</b>	<b>0.6204</b>	<b>0.4988</b>	<b>1.1191</b>	<b>0.0670</b>	<b>0.4988</b>	<b>0.5657</b>	<b>0.0000</b>	<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0250	0.0157	0.1929	5.4000e-004	0.0343	3.3000e-004	0.0346	9.7200e-003	3.1000e-004	0.0100		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505
<b>Total</b>	<b>0.0250</b>	<b>0.0157</b>	<b>0.1929</b>	<b>5.4000e-004</b>	<b>0.0343</b>	<b>3.3000e-004</b>	<b>0.0346</b>	<b>9.7200e-003</b>	<b>3.1000e-004</b>	<b>0.0100</b>		<b>54.1339</b>	<b>54.1339</b>	<b>1.7200e-003</b>	<b>1.5900e-003</b>	<b>54.6505</b>

**3.4 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.6044</b>	<b>7.6869</b>	<b>3.4247</b>	<b>0.5560</b>	<b>3.9807</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
<b>Total</b>	<b>0.0313</b>	<b>0.0196</b>	<b>0.2411</b>	<b>6.7000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>67.6674</b>	<b>67.6674</b>	<b>2.1500e-003</b>	<b>1.9900e-003</b>	<b>68.3131</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					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	0.5043	8.1720	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>0.5043</b>	<b>8.1720</b>	<b>12.1450</b>	<b>0.0206</b>	<b>2.7622</b>	<b>0.4850</b>	<b>3.2472</b>	<b>1.3357</b>	<b>0.4850</b>	<b>1.8207</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0429	4.2000e-004	0.0433	0.0122	3.8000e-004	0.0125		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
<b>Total</b>	<b>0.0313</b>	<b>0.0196</b>	<b>0.2411</b>	<b>6.7000e-004</b>	<b>0.0429</b>	<b>4.2000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.8000e-004</b>	<b>0.0125</b>		<b>67.6674</b>	<b>67.6674</b>	<b>2.1500e-003</b>	<b>1.9900e-003</b>	<b>68.3131</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		2,289.5233	2,289.5233	0.4330		2,300.3479
<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>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0200	0.6913	0.2772	3.4000e-003	0.1220	5.0300e-003	0.1270	0.0351	4.8100e-003	0.0399		364.3517	364.3517	9.4200e-003	0.0538	380.6254
Worker	0.1531	0.0958	1.1815	3.2800e-003	0.4025	2.0400e-003	0.4046	0.1068	1.8800e-003	0.1087		331.5704	331.5704	0.0105	9.7300e-003	334.7342
<b>Total</b>	<b>0.1732</b>	<b>0.7872</b>	<b>1.4587</b>	<b>6.6800e-003</b>	<b>0.5245</b>	<b>7.0700e-003</b>	<b>0.5316</b>	<b>0.1419</b>	<b>6.6900e-003</b>	<b>0.1486</b>		<b>695.9220</b>	<b>695.9220</b>	<b>0.0199</b>	<b>0.0636</b>	<b>715.3596</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	1.1596	11.1025	15.9514	0.0250		0.6765	0.6765		0.6765	0.6765	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.1596</b>	<b>11.1025</b>	<b>15.9514</b>	<b>0.0250</b>		<b>0.6765</b>	<b>0.6765</b>		<b>0.6765</b>	<b>0.6765</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0200	0.6913	0.2772	3.4000e-003	0.0742	5.0300e-003	0.0792	0.0234	4.8100e-003	0.0282		364.3517	364.3517	9.4200e-003	0.0538	380.6254
Worker	0.1531	0.0958	1.1815	3.2800e-003	0.2101	2.0400e-003	0.2122	0.0595	1.8800e-003	0.0614		331.5704	331.5704	0.0105	9.7300e-003	334.7342
<b>Total</b>	<b>0.1732</b>	<b>0.7872</b>	<b>1.4587</b>	<b>6.6800e-003</b>	<b>0.2843</b>	<b>7.0700e-003</b>	<b>0.2914</b>	<b>0.0829</b>	<b>6.6900e-003</b>	<b>0.0896</b>		<b>695.9220</b>	<b>695.9220</b>	<b>0.0199</b>	<b>0.0636</b>	<b>715.3596</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		2,289.6541	2,289.6541	0.4265		2,300.3154
<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>		<b>2,289.6541</b>	<b>2,289.6541</b>	<b>0.4265</b>		<b>2,300.3154</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0195	0.6976	0.2726	3.3500e-003	0.1220	4.9500e-003	0.1269	0.0351	4.7400e-003	0.0399		359.3428	359.3428	9.1300e-003	0.0531	375.3861
Worker	0.1424	0.0852	1.1017	3.1900e-003	0.4025	1.9600e-003	0.4045	0.1068	1.8000e-003	0.1086		321.9597	321.9597	9.5600e-003	9.0400e-003	324.8928
<b>Total</b>	<b>0.1619</b>	<b>0.7828</b>	<b>1.3743</b>	<b>6.5400e-003</b>	<b>0.5245</b>	<b>6.9100e-003</b>	<b>0.5314</b>	<b>0.1419</b>	<b>6.5400e-003</b>	<b>0.1484</b>		<b>681.3025</b>	<b>681.3025</b>	<b>0.0187</b>	<b>0.0621</b>	<b>700.2788</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	1.1038	10.9832	15.9087	0.0250		0.6535	0.6535		0.6535	0.6535	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
<b>Total</b>	<b>1.1038</b>	<b>10.9832</b>	<b>15.9087</b>	<b>0.0250</b>		<b>0.6535</b>	<b>0.6535</b>		<b>0.6535</b>	<b>0.6535</b>	<b>0.0000</b>	<b>2,289.6541</b>	<b>2,289.6541</b>	<b>0.4265</b>		<b>2,300.3154</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0195	0.6976	0.2726	3.3500e-003	0.0742	4.9500e-003	0.0792	0.0234	4.7400e-003	0.0281		359.3428	359.3428	9.1300e-003	0.0531	375.3861
Worker	0.1424	0.0852	1.1017	3.1900e-003	0.2101	1.9600e-003	0.2121	0.0595	1.8000e-003	0.0613		321.9597	321.9597	9.5600e-003	9.0400e-003	324.8928
<b>Total</b>	<b>0.1619</b>	<b>0.7828</b>	<b>1.3743</b>	<b>6.5400e-003</b>	<b>0.2843</b>	<b>6.9100e-003</b>	<b>0.2912</b>	<b>0.0829</b>	<b>6.5400e-003</b>	<b>0.0895</b>		<b>681.3025</b>	<b>681.3025</b>	<b>0.0187</b>	<b>0.0621</b>	<b>700.2788</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8886</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
<b>Total</b>	<b>0.0469</b>	<b>0.0293</b>	<b>0.3617</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>		<b>101.5011</b>	<b>101.5011</b>	<b>3.2200e-003</b>	<b>2.9800e-003</b>	<b>102.4697</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4292</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.0643	6.3000e-004	0.0650	0.0182	5.8000e-004	0.0188		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
<b>Total</b>	<b>0.0469</b>	<b>0.0293</b>	<b>0.3617</b>	<b>1.0000e-003</b>	<b>0.0643</b>	<b>6.3000e-004</b>	<b>0.0650</b>	<b>0.0182</b>	<b>5.8000e-004</b>	<b>0.0188</b>		<b>101.5011</b>	<b>101.5011</b>	<b>3.2200e-003</b>	<b>2.9800e-003</b>	<b>102.4697</b>

**3.6 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		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8509</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>		<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.6 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0261	0.3373	9.8000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332		98.5591	98.5591	2.9300e-003	2.7700e-003	99.4570
<b>Total</b>	<b>0.0436</b>	<b>0.0261</b>	<b>0.3373</b>	<b>9.8000e-004</b>	<b>0.1232</b>	<b>6.0000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.5000e-004</b>	<b>0.0332</b>		<b>98.5591</b>	<b>98.5591</b>	<b>2.9300e-003</b>	<b>2.7700e-003</b>	<b>99.4570</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	0.4208	7.0809	12.9737	0.0179		0.5291	0.5291		0.5291	0.5291	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	8.4100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4292</b>	<b>7.0809</b>	<b>12.9737</b>	<b>0.0179</b>		<b>0.5291</b>	<b>0.5291</b>		<b>0.5291</b>	<b>0.5291</b>	<b>0.0000</b>	<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.6 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0261	0.3373	9.8000e-004	0.0643	6.0000e-004	0.0649	0.0182	5.5000e-004	0.0188		98.5591	98.5591	2.9300e-003	2.7700e-003	99.4570
<b>Total</b>	<b>0.0436</b>	<b>0.0261</b>	<b>0.3373</b>	<b>9.8000e-004</b>	<b>0.0643</b>	<b>6.0000e-004</b>	<b>0.0649</b>	<b>0.0182</b>	<b>5.5000e-004</b>	<b>0.0188</b>		<b>98.5591</b>	<b>98.5591</b>	<b>2.9300e-003</b>	<b>2.7700e-003</b>	<b>99.4570</b>

**3.7 Architectural Coating - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.5580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>1.7497</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
<b>Total</b>	<b>0.0313</b>	<b>0.0196</b>	<b>0.2411</b>	<b>6.7000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>67.6674</b>	<b>67.6674</b>	<b>2.1500e-003</b>	<b>1.9900e-003</b>	<b>68.3131</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	1.5580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>1.7497</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0429	4.2000e-004	0.0433	0.0122	3.8000e-004	0.0125		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
<b>Total</b>	<b>0.0313</b>	<b>0.0196</b>	<b>0.2411</b>	<b>6.7000e-004</b>	<b>0.0429</b>	<b>4.2000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.8000e-004</b>	<b>0.0125</b>		<b>67.6674</b>	<b>67.6674</b>	<b>2.1500e-003</b>	<b>1.9900e-003</b>	<b>68.3131</b>

**3.7 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	1.5580					0.0000	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		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>1.7388</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>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.7 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0174	0.2248	6.5000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		65.7061	65.7061	1.9500e-003	1.8500e-003	66.3047
<b>Total</b>	<b>0.0291</b>	<b>0.0174</b>	<b>0.2248</b>	<b>6.5000e-004</b>	<b>0.0822</b>	<b>4.0000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.7000e-004</b>	<b>0.0222</b>		<b>65.7061</b>	<b>65.7061</b>	<b>1.9500e-003</b>	<b>1.8500e-003</b>	<b>66.3047</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	1.5580					0.0000	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	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>1.7388</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>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

**3.7 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		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0174	0.2248	6.5000e-004	0.0429	4.0000e-004	0.0433	0.0122	3.7000e-004	0.0125		65.7061	65.7061	1.9500e-003	1.8500e-003	66.3047
<b>Total</b>	<b>0.0291</b>	<b>0.0174</b>	<b>0.2248</b>	<b>6.5000e-004</b>	<b>0.0429</b>	<b>4.0000e-004</b>	<b>0.0433</b>	<b>0.0122</b>	<b>3.7000e-004</b>	<b>0.0125</b>		<b>65.7061</b>	<b>65.7061</b>	<b>1.9500e-003</b>	<b>1.8500e-003</b>	<b>66.3047</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert County, Winter

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

Parking Lot	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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**

**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					
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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					
Junior College (2yr)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
Mitigated	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784
Unmitigated	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	4.4708	4.4708	4.3000e-003	0.0000	4.5784

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137		4.4708	4.4708	4.3000e-003		4.5784
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>



Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0749	0.0285	2.4793	1.3000e-004		0.0137	0.0137		0.0137	0.0137		4.4708	4.4708	4.3000e-003		4.5784
<b>Total</b>	<b>0.0749</b>	<b>0.0285</b>	<b>2.4793</b>	<b>1.3000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>	<b>0.0000</b>	<b>4.4708</b>	<b>4.4708</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>4.5784</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Victorville Wellness Center Construction PHASE 2 - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

**Victorville Wellness Center OPERATIONS  
San Bernardino-Mojave Desert County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.24	1000sqft	0.05	2,240.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
Junior College (2yr)	0.45	1000sqft	0.01	450.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	140.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	70.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	500.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	310.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,480.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,230.00	0
Other Non-Asphalt Surfaces	1.19	Acre	1.19	51,836.40	0

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

Parking Lot	39.00	Space	0.35	15,600.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2023		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land Uses accounting for all Phase 1 and 2 land uses, including retention pond

Construction Phase - Construction Only Model

Off-road Equipment - Construction Only Model

Trips and VMT - Construction Only Model

Vehicle Trips - ADT updated to reflect VMT analysis

Woodstoves - No Hearths

Mobile Land Use Mitigation - Greyhound Transit station located beyond Eva Dell Park, increase of 1 bus stop on site



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

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

tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	86.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	37.00	0.00
tblVehicleTrips	ST_TR	2.93	1.67
tblVehicleTrips	ST_TR	2.21	6.00
tblVehicleTrips	ST_TR	122.40	60.00
tblVehicleTrips	ST_TR	11.23	3.00
tblVehicleTrips	ST_TR	8.57	10.00
tblVehicleTrips	ST_TR	9.54	6.00
tblVehicleTrips	SU_TR	3.15	1.67
tblVehicleTrips	SU_TR	0.70	6.00
tblVehicleTrips	SU_TR	142.64	60.00
tblVehicleTrips	SU_TR	1.21	3.00
tblVehicleTrips	SU_TR	1.42	10.00
tblVehicleTrips	SU_TR	8.55	6.00
tblVehicleTrips	WD_TR	2.60	1.67
tblVehicleTrips	WD_TR	9.74	6.00
tblVehicleTrips	WD_TR	112.18	60.00
tblVehicleTrips	WD_TR	20.25	3.00
tblVehicleTrips	WD_TR	34.80	10.00
tblVehicleTrips	WD_TR	9.44	6.00
tblWoodstoves	NumberCatalytic	7.05	0.00

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

tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	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>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	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>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

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



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

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2334	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264
Energy	0.0199	0.1725	0.0900	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	376.1435	376.1435	0.0189	5.4400e-003	378.2384
Mobile	0.2941	0.4219	2.7209	5.5900e-003	0.5627	4.6200e-003	0.5674	0.1503	4.3200e-003	0.1546	0.0000	517.3330	517.3330	0.0342	0.0283	526.6258
Waste						0.0000	0.0000		0.0000	0.0000	39.9040	0.0000	39.9040	2.3583	0.0000	98.8604
Water						0.0000	0.0000		0.0000	0.0000	4.1921	45.8000	49.9920	0.4344	0.0106	64.0221
<b>Total</b>	<b>0.5474</b>	<b>0.6091</b>	<b>4.0821</b>	<b>6.7500e-003</b>	<b>0.5627</b>	<b>0.0254</b>	<b>0.5881</b>	<b>0.1503</b>	<b>0.0251</b>	<b>0.1754</b>	<b>44.0960</b>	<b>941.3529</b>	<b>985.4489</b>	<b>2.8478</b>	<b>0.0444</b>	<b>1,069.8730</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2334	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264
Energy	0.0199	0.1725	0.0900	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	376.1435	376.1435	0.0189	5.4400e-003	378.2384
Mobile	0.2513	0.3055	1.9593	3.6000e-003	0.3545	3.0800e-003	0.3576	0.0947	2.8800e-003	0.0976	0.0000	333.0439	333.0439	0.0268	0.0205	339.8148
Waste						0.0000	0.0000		0.0000	0.0000	39.9040	0.0000	39.9040	2.3583	0.0000	98.8604
Water						0.0000	0.0000		0.0000	0.0000	4.1921	45.8000	49.9920	0.4344	0.0106	64.0221
<b>Total</b>	<b>0.5046</b>	<b>0.4926</b>	<b>3.3204</b>	<b>4.7600e-003</b>	<b>0.3545</b>	<b>0.0239</b>	<b>0.3784</b>	<b>0.0947</b>	<b>0.0237</b>	<b>0.1184</b>	<b>44.0960</b>	<b>757.0638</b>	<b>801.1598</b>	<b>2.8404</b>	<b>0.0366</b>	<b>883.0621</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>7.83</b>	<b>19.12</b>	<b>18.66</b>	<b>29.48</b>	<b>37.00</b>	<b>6.06</b>	<b>35.66</b>	<b>37.00</b>	<b>5.74</b>	<b>32.53</b>	<b>0.00</b>	<b>19.58</b>	<b>18.70</b>	<b>0.26</b>	<b>17.66</b>	<b>17.46</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/15/2022	4/14/2022	5	0	

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





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

**3.2 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Expand Transit Network



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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	180.00	180.00	180.00	511,222	322,060
<b>Total</b>	<b>637.62</b>	<b>637.62</b>	<b>637.62</b>	<b>1,492,387</b>	<b>940,174</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Junior College (2yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
High Turnover (Sit Down Restaurant)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Junior College (2yr)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Medical Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071



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Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Single Family Housing	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	179.1210	179.1210	0.0151	1.8300e-003	180.0450
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	179.1210	179.1210	0.0151	1.8300e-003	180.0450
Natural Gas Mitigated	0.0199	0.1725	0.0900	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0225	197.0225	3.7800e-003	3.6100e-003	198.1933
Natural Gas Unmitigated	0.0199	0.1725	0.0900	1.0900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	197.0225	197.0225	3.7800e-003	3.6100e-003	198.1933

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	302026	1.6300e-003	0.0139	5.9200e-003	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.1172	16.1172	3.1000e-004	3.0000e-004	16.2130
Congregate Care (Assisted Living)	345172	9.3100e-003	0.0795	0.0338	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.0985	92.0985	1.7700e-003	1.6900e-003	92.6458
General Office Building	1646.4	1.0000e-005	8.0000e-005	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0879	0.0879	0.0000	0.0000	0.0884
General Office Building	4939.2	5.0000e-005	4.8000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5272	0.5272	1.0000e-005	1.0000e-005	0.5303
General Office Building	7683.2	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4100	0.4100	1.0000e-005	1.0000e-005	0.4124
High Turnover (Sit Down Restaurant)	785261	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	41.9045	41.9045	8.0000e-004	7.7000e-004	42.1535
Junior College (2yr)	6160.5	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3288	0.3288	1.0000e-005	1.0000e-005	0.3307
Medical Office Building	4939.2	3.0000e-005	2.4000e-004	2.0000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2636	0.2636	1.0000e-005	0.0000	0.2651
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	848608	4.5800e-003	0.0391	0.0166	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	45.2850	45.2850	8.7000e-004	8.3000e-004	45.5541
<b>Total</b>		<b>0.0199</b>	<b>0.1725</b>	<b>0.0900</b>	<b>1.0800e-003</b>		<b>0.0138</b>	<b>0.0138</b>		<b>0.0138</b>	<b>0.0138</b>	<b>0.0000</b>	<b>197.0225</b>	<b>197.0225</b>	<b>3.7900e-003</b>	<b>3.6200e-003</b>	<b>198.1933</b>

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**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	tons/yr										MT/yr					
Congregate Care (Assisted Living)	302026	1.6300e-003	0.0139	5.9200e-003	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.1172	16.1172	3.1000e-004	3.0000e-004	16.2130
Congregate Care (Assisted Living)	345172	9.3100e-003	0.0795	0.0338	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.0985	92.0985	1.7700e-003	1.6900e-003	92.6458
General Office Building	1646.4	1.0000e-005	8.0000e-005	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0879	0.0879	0.0000	0.0000	0.0884
General Office Building	4939.2	5.0000e-005	4.8000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5272	0.5272	1.0000e-005	1.0000e-005	0.5303
General Office Building	7683.2	4.0000e-005	3.8000e-004	3.2000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4100	0.4100	1.0000e-005	1.0000e-005	0.4124
High Turnover (Sit Down Restaurant)	785261	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	41.9045	41.9045	8.0000e-004	7.7000e-004	42.1535
Junior College (2yr)	6160.5	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3288	0.3288	1.0000e-005	1.0000e-005	0.3307
Medical Office Building	4939.2	3.0000e-005	2.4000e-004	2.0000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2636	0.2636	1.0000e-005	0.0000	0.2651
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	848608	4.5800e-003	0.0391	0.0166	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	45.2850	45.2850	8.7000e-004	8.3000e-004	45.5541
<b>Total</b>		<b>0.0199</b>	<b>0.1725</b>	<b>0.0900</b>	<b>1.0800e-003</b>		<b>0.0138</b>	<b>0.0138</b>		<b>0.0138</b>	<b>0.0138</b>	<b>0.0000</b>	<b>197.0225</b>	<b>197.0225</b>	<b>3.7900e-003</b>	<b>3.6200e-003</b>	<b>198.1933</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	83160.2	14.7481	1.2400e-003	1.5000e-004	14.8242
Congregate Care (Assisted Living)	95040.2	84.2748	7.1100e-003	8.6000e-004	84.7096
General Office Building	13233.6	4.6938	4.0000e-004	5.0000e-005	4.7181
General Office Building	20585.6	3.6508	3.1000e-004	4.0000e-005	3.6696
General Office Building	4411.2	0.7823	7.0000e-005	1.0000e-005	0.7863
High Turnover (Sit Down Restaurant)	132941	23.5765	1.9900e-003	2.4000e-004	23.6981
Junior College (2yr)	3451.5	0.6121	5.0000e-005	1.0000e-005	0.6153
Medical Office Building	13233.6	2.3469	2.0000e-004	2.0000e-005	2.3590
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	3080	1.0925	9.0000e-005	1.0000e-005	1.0981
Parking Lot	5460	0.9683	8.0000e-005	1.0000e-005	0.9733
Single Family Housing	238940	42.3749	3.5800e-003	4.3000e-004	42.5935
<b>Total</b>		<b>179.1210</b>	<b>0.0151</b>	<b>1.8300e-003</b>	<b>180.0450</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	83160.2	14.7481	1.2400e-003	1.5000e-004	14.8242
Congregate Care (Assisted Living)	95040.2	84.2748	7.1100e-003	8.6000e-004	84.7096
General Office Building	13233.6	4.6938	4.0000e-004	5.0000e-005	4.7181
General Office Building	20585.6	3.6508	3.1000e-004	4.0000e-005	3.6696
General Office Building	4411.2	0.7823	7.0000e-005	1.0000e-005	0.7863
High Turnover (Sit Down Restaurant)	132941	23.5765	1.9900e-003	2.4000e-004	23.6981
Junior College (2yr)	3451.5	0.6121	5.0000e-005	1.0000e-005	0.6153
Medical Office Building	13233.6	2.3469	2.0000e-004	2.0000e-005	2.3590
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	3080	1.0925	9.0000e-005	1.0000e-005	1.0981
Parking Lot	5460	0.9683	8.0000e-005	1.0000e-005	0.9733
Single Family Housing	238940	42.3749	3.5800e-003	4.3000e-004	42.5935
<b>Total</b>		<b>179.1210</b>	<b>0.0151</b>	<b>1.8300e-003</b>	<b>180.0450</b>

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2334	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264
Unmitigated	0.2334	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1412					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0384	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264
<b>Total</b>	<b>0.2334</b>	<b>0.0147</b>	<b>1.2712</b>	<b>7.0000e-005</b>		<b>7.0300e-003</b>	<b>7.0300e-003</b>		<b>7.0300e-003</b>	<b>7.0300e-003</b>	<b>0.0000</b>	<b>2.0764</b>	<b>2.0764</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>2.1264</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1412					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0384	0.0147	1.2712	7.0000e-005		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	2.0764	2.0764	2.0000e-003	0.0000	2.1264
<b>Total</b>	<b>0.2334</b>	<b>0.0147</b>	<b>1.2712</b>	<b>7.0000e-005</b>		<b>7.0300e-003</b>	<b>7.0300e-003</b>		<b>7.0300e-003</b>	<b>7.0300e-003</b>	<b>0.0000</b>	<b>2.0764</b>	<b>2.0764</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>2.1264</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.9920	0.4344	0.0106	64.0221
Unmitigated	49.9920	0.4344	0.0106	64.0221

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	9.18672 / 5.79163	35.5399	0.3021	7.4000e-003	45.2983
General Office Building	0.995309 / 0.610028	3.8161	0.0327	8.0000e-004	4.8732
High Turnover (Sit Down Restaurant)	0.874177 / 0.0557985	2.4059	0.0287	6.9000e-004	3.3295
Junior College (2yr)	0.0220721 / 0.034523	0.1260	7.3000e-004	2.0000e-005	0.1497
Medical Office Building	0.180692 / 0.0344175	0.5424	5.9300e-003	1.4000e-004	0.7335
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.95462 / 1.23226	7.5617	0.0643	1.5700e-003	9.6379
<b>Total</b>		<b>49.9920</b>	<b>0.4344</b>	<b>0.0106</b>	<b>64.0221</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	9.18672 / 5.79163	35.5399	0.3021	7.4000e-003	45.2983
General Office Building	0.995309 / 0.610028	3.8161	0.0327	8.0000e-004	4.8732
High Turnover (Sit Down Restaurant)	0.874177 / 0.0557985	2.4059	0.0287	6.9000e-004	3.3295
Junior College (2yr)	0.0220721 / 0.034523	0.1260	7.3000e-004	2.0000e-005	0.1497
Medical Office Building	0.180692 / 0.0344175	0.5424	5.9300e-003	1.4000e-004	0.7335
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.95462 / 1.23226	7.5617	0.0643	1.5700e-003	9.6379
<b>Total</b>		<b>49.9920</b>	<b>0.4344</b>	<b>0.0106</b>	<b>64.0221</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	39.9040	2.3583	0.0000	98.8604
Unmitigated	39.9040	2.3583	0.0000	98.8604

## Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	128.66	26.1168	1.5435	0.0000	64.7033
General Office Building	5.21	1.0576	0.0625	0.0000	2.6201
High Turnover (Sit Down Restaurant)	34.27	6.9565	0.4111	0.0000	17.2344
Junior College (2yr)	0.59	0.1198	7.0800e-003	0.0000	0.2967
Medical Office Building	15.55	3.1565	0.1865	0.0000	7.8201
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.3	2.4968	0.1476	0.0000	6.1857
<b>Total</b>		<b>39.9040</b>	<b>2.3583</b>	<b>0.0000</b>	<b>98.8604</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	128.66	26.1168	1.5435	0.0000	64.7033
General Office Building	5.21	1.0576	0.0625	0.0000	2.6201
High Turnover (Sit Down Restaurant)	34.27	6.9565	0.4111	0.0000	17.2344
Junior College (2yr)	0.59	0.1198	7.0800e-003	0.0000	0.2967
Medical Office Building	15.55	3.1565	0.1865	0.0000	7.8201
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.3	2.4968	0.1476	0.0000	6.1857
<b>Total</b>		<b>39.9040</b>	<b>2.3583</b>	<b>0.0000</b>	<b>98.8604</b>

**9.0 Operational Offroad**

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

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Annual

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

**Victorville Wellness Center OPERATIONS**  
**San Bernardino-Mojave Desert County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.24	1000sqft	0.05	2,240.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
Junior College (2yr)	0.45	1000sqft	0.01	450.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	140.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	70.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	500.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	310.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,480.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,230.00	0
Other Non-Asphalt Surfaces	1.19	Acre	1.19	51,836.40	0



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

Parking Lot	39.00	Space	0.35	15,600.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10	<b>Operational Year</b>	2023		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land Uses accounting for all Phase 1 and 2 land uses, including retention pond

Construction Phase - Construction Only Model

Off-road Equipment - Construction Only Model

Trips and VMT - Construction Only Model

Vehicle Trips - ADT updated to reflect VMT analysis

Woodstoves - No Hearths

Mobile Land Use Mitigation - Greyhound Transit station located beyond Eva Dell Park, increase of 1 bus stop on site



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	86.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	37.00	0.00
tblVehicleTrips	ST_TR	2.93	1.67
tblVehicleTrips	ST_TR	2.21	6.00
tblVehicleTrips	ST_TR	122.40	60.00
tblVehicleTrips	ST_TR	11.23	3.00
tblVehicleTrips	ST_TR	8.57	10.00
tblVehicleTrips	ST_TR	9.54	6.00
tblVehicleTrips	SU_TR	3.15	1.67
tblVehicleTrips	SU_TR	0.70	6.00
tblVehicleTrips	SU_TR	142.64	60.00
tblVehicleTrips	SU_TR	1.21	3.00
tblVehicleTrips	SU_TR	1.42	10.00
tblVehicleTrips	SU_TR	8.55	6.00
tblVehicleTrips	WD_TR	2.60	1.67
tblVehicleTrips	WD_TR	9.74	6.00
tblVehicleTrips	WD_TR	112.18	60.00
tblVehicleTrips	WD_TR	20.25	3.00
tblVehicleTrips	WD_TR	34.80	10.00
tblVehicleTrips	WD_TR	9.44	6.00
tblWoodstoves	NumberCatalytic	7.05	0.00

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Energy	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
Mobile	1.9123	2.1436	15.8406	0.0327	3.1514	0.0254	3.1768	0.8405	0.0237	0.8643		3,328.6618	3,328.6618	0.1971	0.1650	3,382.7454
<b>Total</b>	<b>3.5163</b>	<b>3.2517</b>	<b>30.4582</b>	<b>0.0394</b>	<b>3.1514</b>	<b>0.1789</b>	<b>3.3303</b>	<b>0.8405</b>	<b>0.1773</b>	<b>1.0178</b>	<b>0.0000</b>	<b>4,544.1217</b>	<b>4,544.1217</b>	<b>0.2444</b>	<b>0.1868</b>	<b>4,605.8897</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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Energy	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
Mobile	1.6766	1.5575	11.1225	0.0210	1.9853	0.0170	2.0023	0.5295	0.0159	0.5454		2,139.6935	2,139.6935	0.1514	0.1193	2,179.0237
<b>Total</b>	<b>3.2806</b>	<b>2.6656</b>	<b>25.7401</b>	<b>0.0277</b>	<b>1.9853</b>	<b>0.1705</b>	<b>2.1558</b>	<b>0.5295</b>	<b>0.1694</b>	<b>0.6989</b>	<b>0.0000</b>	<b>3,355.1535</b>	<b>3,355.1535</b>	<b>0.1987</b>	<b>0.1411</b>	<b>3,402.1679</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	6.70	18.02	15.49	29.66	37.00	4.71	35.27	37.00	4.45	31.33	0.00	26.16	26.16	18.72	24.45	26.13

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/15/2022	4/14/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.8

Residential Indoor: 46,656; Residential Outdoor: 15,552; Non-Residential Indoor: 15,555; Non-Residential Outdoor: 5,185; Striped Parking Area: 9,940 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

- Increase Density
- Increase Diversity
- Expand Transit Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6766	1.5575	11.1225	0.0210	1.9853	0.0170	2.0023	0.5295	0.0159	0.5454		2,139.6935	2,139.6935	0.1514	0.1193	2,179.0237
Unmitigated	1.9123	2.1436	15.8406	0.0327	3.1514	0.0254	3.1768	0.8405	0.0237	0.8643		3,328.6618	3,328.6618	0.1971	0.1650	3,382.7454

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	35.07	35.07	35.07	99,603	62,748
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
General Office Building	13.44	13.44	13.44	32,118	20,234
General Office Building	8.64	8.64	8.64	20,647	13,007
General Office Building	8.64	8.64	8.64	20,647	13,007
General Office Building	2.88	2.88	2.88	6,882	4,336

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	172.80	172.80	172.80	200,494	126,307
Junior College (2yr)	1.35	1.35	1.35	3,428	2,160
Medical Office Building	14.40	14.40	14.40	28,184	17,756
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	180.00	180.00	180.00	511,222	322,060
<b>Total</b>	<b>637.62</b>	<b>637.62</b>	<b>637.62</b>	<b>1,492,387</b>	<b>940,174</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
High Turnover (Sit Down Restaurant)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Junior College (2yr)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Medical Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Single Family Housing	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
NaturalGas Unmitigated	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

**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					
Congregate Care (Assisted Living)	827.467	8.9200e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003		97.3491	97.3491	1.8700e-003	1.7800e-003	97.9276
Congregate Care (Assisted Living)	945.677	0.0510	0.4358	0.1854	2.7800e-003		0.0352	0.0352		0.0352	0.0352		556.2806	556.2806	0.0107	0.0102	559.5863
General Office Building	13.5321	2.9000e-004	2.6500e-003	2.2300e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1840	3.1840	6.0000e-005	6.0000e-005	3.2029
General Office Building	21.0499	2.3000e-004	2.0600e-003	1.7300e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.4765	2.4765	5.0000e-005	5.0000e-005	2.4912
General Office Building	4.51068	5.0000e-005	4.4000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.5307	0.5307	1.0000e-005	1.0000e-005	0.5338
High Turnover (Sit Down Restaurant)	2151.4	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160		253.1058	253.1058	4.8500e-003	4.6400e-003	254.6099
Junior College (2yr)	16.8781	1.8000e-004	1.6500e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9857	1.9857	4.0000e-005	4.0000e-005	1.9975
Medical Office Building	13.5321	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.5920	1.5920	3.0000e-005	3.0000e-005	1.6015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2324.95	0.0251	0.2143	0.0912	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.5240	273.5240	5.2400e-003	5.0100e-003	275.1494
<b>Total</b>		<b>0.1091</b>	<b>0.9453</b>	<b>0.4931</b>	<b>5.9600e-003</b>		<b>0.0754</b>	<b>0.0754</b>		<b>0.0754</b>	<b>0.0754</b>		<b>1,190.0283</b>	<b>1,190.0283</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,197.1000</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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					
Congregate Care (Assisted Living)	0.827467	8.9200e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003		97.3491	97.3491	1.8700e-003	1.7800e-003	97.9276
Congregate Care (Assisted Living)	0.945677	0.0510	0.4358	0.1854	2.7800e-003		0.0352	0.0352		0.0352	0.0352		556.2806	556.2806	0.0107	0.0102	559.5863
General Office Building	0.00451068	5.0000e-005	4.4000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.5307	0.5307	1.0000e-005	1.0000e-005	0.5338
General Office Building	0.0135321	2.9000e-004	2.6500e-003	2.2300e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1840	3.1840	6.0000e-005	6.0000e-005	3.2029
General Office Building	0.0210499	2.3000e-004	2.0600e-003	1.7300e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.4765	2.4765	5.0000e-005	5.0000e-005	2.4912
High Turnover (Sit Down Restaurant)	2.1514	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160		253.1058	253.1058	4.8500e-003	4.6400e-003	254.6099
Junior College (2yr)	0.0168781	1.8000e-004	1.6500e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9857	1.9857	4.0000e-005	4.0000e-005	1.9975
Medical Office Building	0.0135321	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.5920	1.5920	3.0000e-005	3.0000e-005	1.6015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.32495	0.0251	0.2143	0.0912	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.5240	273.5240	5.2400e-003	5.0100e-003	275.1494
<b>Total</b>		<b>0.1091</b>	<b>0.9453</b>	<b>0.4931</b>	<b>5.9600e-003</b>		<b>0.0754</b>	<b>0.0754</b>		<b>0.0754</b>	<b>0.0754</b>		<b>1,190.0283</b>	<b>1,190.0283</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,197.1000</b>

**6.0 Area Detail**



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Summer

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

**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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Unmitigated	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4264	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782		25.4317	25.4317	0.0245		26.0443
<b>Total</b>	<b>1.4949</b>	<b>0.1628</b>	<b>14.1245</b>	<b>7.5000e-004</b>		<b>0.0782</b>	<b>0.0782</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>25.4317</b>	<b>25.4317</b>	<b>0.0245</b>	<b>0.0000</b>	<b>26.0443</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4264	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782		25.4317	25.4317	0.0245		26.0443
<b>Total</b>	<b>1.4949</b>	<b>0.1628</b>	<b>14.1245</b>	<b>7.5000e-004</b>		<b>0.0782</b>	<b>0.0782</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>25.4317</b>	<b>25.4317</b>	<b>0.0245</b>	<b>0.0000</b>	<b>26.0443</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

**Victorville Wellness Center OPERATIONS**

**San Bernardino-Mojave Desert County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.24	1000sqft	0.05	2,240.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	1.44	1000sqft	0.03	1,440.00	0
General Office Building	0.48	1000sqft	0.01	480.00	0
Medical Office Building	1.44	1000sqft	0.03	1,440.00	0
Junior College (2yr)	0.45	1000sqft	0.01	450.00	0
Other Asphalt Surfaces	6.50	1000sqft	0.15	6,500.00	0
Other Asphalt Surfaces	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	0.14	1000sqft	0.00	140.00	0
Other Asphalt Surfaces	0.07	1000sqft	0.00	70.00	0
Other Asphalt Surfaces	0.50	1000sqft	0.01	500.00	0
Other Asphalt Surfaces	0.31	1000sqft	0.01	310.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.05	2,000.00	0
Other Asphalt Surfaces	0.56	1000sqft	0.01	560.00	0
Other Asphalt Surfaces	12.48	1000sqft	0.29	12,480.00	0
Other Non-Asphalt Surfaces	0.75	1000sqft	0.02	750.00	0
Other Non-Asphalt Surfaces	0.98	Acre	0.98	42,688.80	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	0.35	1000sqft	0.01	350.00	0
Other Non-Asphalt Surfaces	1.50	1000sqft	0.03	1,500.00	0
Other Non-Asphalt Surfaces	1.23	1000sqft	0.03	1,230.00	0
Other Non-Asphalt Surfaces	1.19	Acre	1.19	51,836.40	0

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

Parking Lot	39.00	Space	0.35	15,600.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
Parking Lot	22.00	Space	0.20	8,800.00	0
High Turnover (Sit Down Restaurant)	2.88	1000sqft	0.07	2,880.00	0
Congregate Care (Assisted Living)	21.00	Dwelling Unit	0.05	2,240.00	21
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Congregate Care (Assisted Living)	24.00	Dwelling Unit	0.05	2,240.00	24
Single Family Housing	30.00	Dwelling Unit	0.22	9,600.00	30

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Land Uses accounting for all Phase 1 and 2 land uses, including retention pond

Construction Phase - Construction Only Model

Off-road Equipment - Construction Only Model

Trips and VMT - Construction Only Model

Vehicle Trips - ADT updated to reflect VMT analysis

Woodstoves - No Hearths

Mobile Land Use Mitigation - Greyhound Transit station located beyond Eva Dell Park, increase of 1 bus stop on site



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

tblLandUse	LotAcreage	9.74	0.22
tblLandUse	Population	60.00	21.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	69.00	24.00
tblLandUse	Population	86.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	37.00	0.00
tblVehicleTrips	ST_TR	2.93	1.67
tblVehicleTrips	ST_TR	2.21	6.00
tblVehicleTrips	ST_TR	122.40	60.00
tblVehicleTrips	ST_TR	11.23	3.00
tblVehicleTrips	ST_TR	8.57	10.00
tblVehicleTrips	ST_TR	9.54	6.00
tblVehicleTrips	SU_TR	3.15	1.67
tblVehicleTrips	SU_TR	0.70	6.00
tblVehicleTrips	SU_TR	142.64	60.00
tblVehicleTrips	SU_TR	1.21	3.00
tblVehicleTrips	SU_TR	1.42	10.00
tblVehicleTrips	SU_TR	8.55	6.00
tblVehicleTrips	WD_TR	2.60	1.67
tblVehicleTrips	WD_TR	9.74	6.00
tblVehicleTrips	WD_TR	112.18	60.00
tblVehicleTrips	WD_TR	20.25	3.00
tblVehicleTrips	WD_TR	34.80	10.00
tblVehicleTrips	WD_TR	9.44	6.00
tblWoodstoves	NumberCatalytic	7.05	0.00



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

tblWoodstoves	NumberCatalytic	1.50	0.00
tblWoodstoves	NumberNoncatalytic	7.05	0.00
tblWoodstoves	NumberNoncatalytic	1.50	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

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Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Energy	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
Mobile	1.6360	2.2767	14.3751	0.0303	3.1514	0.0254	3.1768	0.8405	0.0238	0.8643		3,091.6719	3,091.6719	0.2049	0.1693	3,147.2512
<b>Total</b>	<b>3.2400</b>	<b>3.3848</b>	<b>28.9926</b>	<b>0.0370</b>	<b>3.1514</b>	<b>0.1789</b>	<b>3.3303</b>	<b>0.8405</b>	<b>0.1773</b>	<b>1.0178</b>	<b>0.0000</b>	<b>4,307.1318</b>	<b>4,307.1318</b>	<b>0.2522</b>	<b>0.1911</b>	<b>4,370.3954</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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Energy	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
Mobile	1.4048	1.6550	10.3835	0.0195	1.9853	0.0170	2.0023	0.5295	0.0159	0.5454		1,991.1259	1,991.1259	0.1606	0.1227	2,031.6908
<b>Total</b>	<b>3.0088</b>	<b>2.7631</b>	<b>25.0011</b>	<b>0.0262</b>	<b>1.9853</b>	<b>0.1705</b>	<b>2.1558</b>	<b>0.5295</b>	<b>0.1694</b>	<b>0.6989</b>	<b>0.0000</b>	<b>3,206.5858</b>	<b>3,206.5858</b>	<b>0.2079</b>	<b>0.1445</b>	<b>3,254.8351</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	7.14	18.37	13.77	29.16	37.00	4.71	35.27	37.00	4.45	31.33	0.00	25.55	25.55	17.57	24.41	25.53

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/15/2022	4/14/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.8

Residential Indoor: 46,656; Residential Outdoor: 15,552; Non-Residential Indoor: 15,555; Non-Residential Outdoor: 5,185; Striped Parking Area: 9,940 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

Increase Density

Increase Diversity

Expand Transit Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4048	1.6550	10.3835	0.0195	1.9853	0.0170	2.0023	0.5295	0.0159	0.5454		1,991.1259	1,991.1259	0.1606	0.1227	2,031.6908
Unmitigated	1.6360	2.2767	14.3751	0.0303	3.1514	0.0254	3.1768	0.8405	0.0238	0.8643		3,091.6719	3,091.6719	0.2049	0.1693	3,147.2512

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	35.07	35.07	35.07	99,603	62,748
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
Congregate Care (Assisted Living)	40.08	40.08	40.08	113,832	71,712
General Office Building	13.44	13.44	13.44	32,118	20,234
General Office Building	8.64	8.64	8.64	20,647	13,007
General Office Building	8.64	8.64	8.64	20,647	13,007
General Office Building	2.88	2.88	2.88	6,882	4,336

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	172.80	172.80	172.80	200,494	126,307
Junior College (2yr)	1.35	1.35	1.35	3,428	2,160
Medical Office Building	14.40	14.40	14.40	28,184	17,756
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	180.00	180.00	180.00	511,222	322,060
<b>Total</b>	<b>637.62</b>	<b>637.62</b>	<b>637.62</b>	<b>1,492,387</b>	<b>940,174</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3





Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
General Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
High Turnover (Sit Down Restaurant)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Junior College (2yr)	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Medical Office Building	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Single Family Housing	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000
NaturalGas Unmitigated	0.1091	0.9453	0.4931	5.9500e-003		0.0754	0.0754		0.0754	0.0754		1,190.0283	1,190.0283	0.0228	0.0218	1,197.1000

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

**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					
Congregate Care (Assisted Living)	827.467	8.9200e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003		97.3491	97.3491	1.8700e-003	1.7800e-003	97.9276
Congregate Care (Assisted Living)	945.677	0.0510	0.4358	0.1854	2.7800e-003		0.0352	0.0352		0.0352	0.0352		556.2806	556.2806	0.0107	0.0102	559.5863
General Office Building	13.5321	2.9000e-004	2.6500e-003	2.2300e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1840	3.1840	6.0000e-005	6.0000e-005	3.2029
General Office Building	21.0499	2.3000e-004	2.0600e-003	1.7300e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.4765	2.4765	5.0000e-005	5.0000e-005	2.4912
General Office Building	4.51068	5.0000e-005	4.4000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.5307	0.5307	1.0000e-005	1.0000e-005	0.5338
High Turnover (Sit Down Restaurant)	2151.4	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160		253.1058	253.1058	4.8500e-003	4.6400e-003	254.6099
Junior College (2yr)	16.8781	1.8000e-004	1.6500e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9857	1.9857	4.0000e-005	4.0000e-005	1.9975
Medical Office Building	13.5321	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.5920	1.5920	3.0000e-005	3.0000e-005	1.6015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2324.95	0.0251	0.2143	0.0912	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.5240	273.5240	5.2400e-003	5.0100e-003	275.1494
<b>Total</b>		<b>0.1091</b>	<b>0.9453</b>	<b>0.4931</b>	<b>5.9600e-003</b>		<b>0.0754</b>	<b>0.0754</b>		<b>0.0754</b>	<b>0.0754</b>		<b>1,190.0283</b>	<b>1,190.0283</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,197.1000</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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					
Congregate Care (Assisted Living)	0.827467	8.9200e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003		97.3491	97.3491	1.8700e-003	1.7800e-003	97.9276
Congregate Care (Assisted Living)	0.945677	0.0510	0.4358	0.1854	2.7800e-003		0.0352	0.0352		0.0352	0.0352		556.2806	556.2806	0.0107	0.0102	559.5863
General Office Building	0.00451068	5.0000e-005	4.4000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.5307	0.5307	1.0000e-005	1.0000e-005	0.5338
General Office Building	0.0135321	2.9000e-004	2.6500e-003	2.2300e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1840	3.1840	6.0000e-005	6.0000e-005	3.2029
General Office Building	0.0210499	2.3000e-004	2.0600e-003	1.7300e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.4765	2.4765	5.0000e-005	5.0000e-005	2.4912
High Turnover (Sit Down Restaurant)	2.1514	0.0232	0.2109	0.1772	1.2700e-003		0.0160	0.0160		0.0160	0.0160		253.1058	253.1058	4.8500e-003	4.6400e-003	254.6099
Junior College (2yr)	0.0168781	1.8000e-004	1.6500e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		1.9857	1.9857	4.0000e-005	4.0000e-005	1.9975
Medical Office Building	0.0135321	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.5920	1.5920	3.0000e-005	3.0000e-005	1.6015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.32495	0.0251	0.2143	0.0912	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.5240	273.5240	5.2400e-003	5.0100e-003	275.1494
<b>Total</b>		<b>0.1091</b>	<b>0.9453</b>	<b>0.4931</b>	<b>5.9600e-003</b>		<b>0.0754</b>	<b>0.0754</b>		<b>0.0754</b>	<b>0.0754</b>		<b>1,190.0283</b>	<b>1,190.0283</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,197.1000</b>

**6.0 Area Detail**

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert County, Winter

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

**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	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443
Unmitigated	1.4949	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782	0.0000	25.4317	25.4317	0.0245	0.0000	26.0443

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4264	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782		25.4317	25.4317	0.0245		26.0443
<b>Total</b>	<b>1.4949</b>	<b>0.1628</b>	<b>14.1245</b>	<b>7.5000e-004</b>		<b>0.0782</b>	<b>0.0782</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>25.4317</b>	<b>25.4317</b>	<b>0.0245</b>	<b>0.0000</b>	<b>26.0443</b>

Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4264	0.1628	14.1245	7.5000e-004		0.0782	0.0782		0.0782	0.0782		25.4317	25.4317	0.0245		26.0443
<b>Total</b>	<b>1.4949</b>	<b>0.1628</b>	<b>14.1245</b>	<b>7.5000e-004</b>		<b>0.0782</b>	<b>0.0782</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>25.4317</b>	<b>25.4317</b>	<b>0.0245</b>	<b>0.0000</b>	<b>26.0443</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Victorville Wellness Center OPERATIONS - San Bernardino-Mojave Desert 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Proposed Project  
Total Construction-Related and Operational  
Gasoline Usage**

**Construction Phase 1**

<b>Table 1. Construction Year One (2022)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	568	568,000	10.15
<b>Total Gallons Consumed During Construction Year One (2022):</b>			<b>55,961</b>

<b>Table 2. Construction Year Two (2023)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	140	140,000	10.15
<b>Total Gallons Consumed During Construction Year Two (2023):</b>			<b>13,793</b>

**Notes:**  
 Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.  
<sup>1</sup>Per CalEEMod Output Files found in Air Quality and Greenhouse Gas Emissions Assessment  
<sup>2</sup>Per Climate Registry Equation 13e

**Sources:**  
<sup>1</sup>ECORP Consulting. 2021. Air Quality and Greenhouse Gas Emissions Assessment: Marina Village Apartments  
<sup>2</sup>Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.  
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

**Proposed Project  
Total Construction-Related and Operational  
Gasoline Usage**

***Construction Phase 2***

<b>Table 1. Construction Year One (2023)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	477	477,000	10.15
<b>Total Gallons Consumed During Construction Year One (2023):</b>			<b>46,995</b>

<b>Table 2. Construction Year Two (2024)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	120	120,000	10.15
<b>Total Gallons Consumed During Construction Year Two (2024):</b>			<b>11,823</b>

**Notes:**  
 Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.  
<sup>1</sup>Per CalEEMod Output Files found in Air Quality and Greenhouse Gas Emissions Assessment  
<sup>2</sup>Per Climate Registry Equation 13e

**Sources:**  
<sup>1</sup>ECORP Consulting. 2021. Air Quality and Greenhouse Gas Emissions Assessment: Marina Village Apartments  
<sup>2</sup>Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.  
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

**Proposed Project  
Total Construction-Related and Operational  
Gasoline Usage  
Operations**

<b>Table 4. Average Miles per Gallon in Butte County in 2020<sup>3</sup></b>								
Area	Sub-Area	Cal. Year	Season	Veh_tech	EMFAC 2021 Category	Total Onroad Vehicle Gallons Consumed in San Bernardino County in 2020	Total Onroad Vehicle Miles Traveled in San Bernardino County in 2020	Total Passenger Vehicle Miles per Gallon in San Bernardino County in 2020
Sub-Areas	San Bernardino County	2023	Annual	All Vehicles	All Vehicles	1,150,345,753	19,895,902,697	17.30

**Sources:**

<sup>3</sup>California Air Resource Board. 2021. EMFAC2021 Mobile Emissions Model.

<b>Table 5. Total Gallons During Project Operations</b>				
Project Onroad Vehicle Daily Trips <sup>4</sup>	Estimated Miles per Trip <sup>4</sup>	Project Onroad Vehicle Daily Miles Traveled	Project Onroad Vehicle Daily Fuel Consumption	Project Onroad Vehicle Annual Fuel Consumption
637	8.38	5,338.06	308.64	<b>112,653</b>

**Sources:**

<sup>4</sup>CalEEMod 2020.4.0