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**Moreno Valley Business Park –  
Phase II  
MOBILE SOURCE HEALTH RISK ASSESSMENT  
CITY OF MORENO VALLEY**

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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM10	Particulate Matter 10 microns in diameter or less
Project	Moreno Valley Business Park – Phase II
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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## EXECUTIVE SUMMARY

This report evaluates the potential health risk impacts associated with the development of the proposed Project. More specifically, health risk impacts as a result of exposure to Toxic Air Contaminants (TACs) including diesel particulate matter (DPM) as a result of Project construction activities, and heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1, ES-2, and ES-3 below for the Project.

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction DPM source emissions is Location “R4” which is located approximately 103 feet west of the Project site at an existing residence located at 12085 Heacock Street. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project construction DPM source emissions is estimated at 6.04 in one million, which is less than the SCAQMD’s significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.02, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R4 which is located approximately 103 feet west of the Project site at an existing residence located at 12085 Heacock Street. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.79 in one million, which is less than the SCAQMD’s significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario<sup>1</sup>:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location “R6,” which represents the adjacent potential worker receptor approximately 5 feet east of the Project site. At the MEIW, the maximum incremental cancer risk impact is 0.36 in one million which is less than the SCAQMD’s threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyze herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

There are no existing schools, and no schools are proposed, within one-quarter mile of the Project site. The school nearest the Project site is Midland Elementary School, which is located 0.5 miles north of the site. Accordingly, the Project would have no potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. Moreover, as substantiated in this analysis, at the MEIR evaluated herein (located only 103 feet from the Project site) health risk thresholds would not be exceed or even approached.

In this latter regard, proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

The one-quarter mile radius or 1,320 feet geographic scope utilized for determining potential impacts to nearby schools is more robust than, and therefore provides a more health protective scenario for evaluation than the CARB 1,000-foot impact radius identified above.

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1 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.



**TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS**

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
2 Year Exposure	Maximum Exposed Sensitive Receptor	6.04	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	0.02	1.0	NO

**TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS**

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.79	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.36	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	≤0.01	1.0	NO

**TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS**

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	6.39	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	0.02	1.0	NO

# 1 INTRODUCTION

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) or other Toxic Air Contaminants (TACs), preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. This HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (3). In this report the AQMD states (Page D-3):

*"...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is  $HI > 1.0$  while the cumulative (facility-wide) is  $HI > 3.0$ . It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

## 1.1 SITE LOCATION

The proposed project is located north of State Route 60 (SR-60) at Heacock Street in the northwestern portion of the City of Moreno Valley, in western Riverside County. The Project considered herein comprises approximately 9.98 acres within Specific Plan No. 205, located immediately southeast of Ironwood Avenue at Heacock Street, as shown on Exhibit 1-A.

## 1.2 PROJECT DESCRIPTION

The Project is proposed to consist of a single 220,390 sf industrial building (Building 5) which will be evaluated assuming 154,270 sf of warehousing use (70% of the overall sf), 33,060 sf of manufacturing use (15% of the overall sf), and 33,060 sf of high-cube cold storage warehouse use (15% of the overall sf) for a total of 220,390 sf of industrial uses. A preliminary site plan for the proposed Project is shown on Exhibit 1-B.

As summarized in the *Moreno Valley Business Park – Phase II Trip Generation and VMT Analysis* prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 498 vehicular trips-ends per day (actual vehicles) which includes 128 two-way truck trips per day (4). Note: Actual vehicle counts (rather than passenger car equivalent [PCE]) is employed in this analysis to accurately reflect emissions attributable to the quantity and category of each vehicle accessing the Project site.

EXHIBIT 1-A: LOCATION MAP

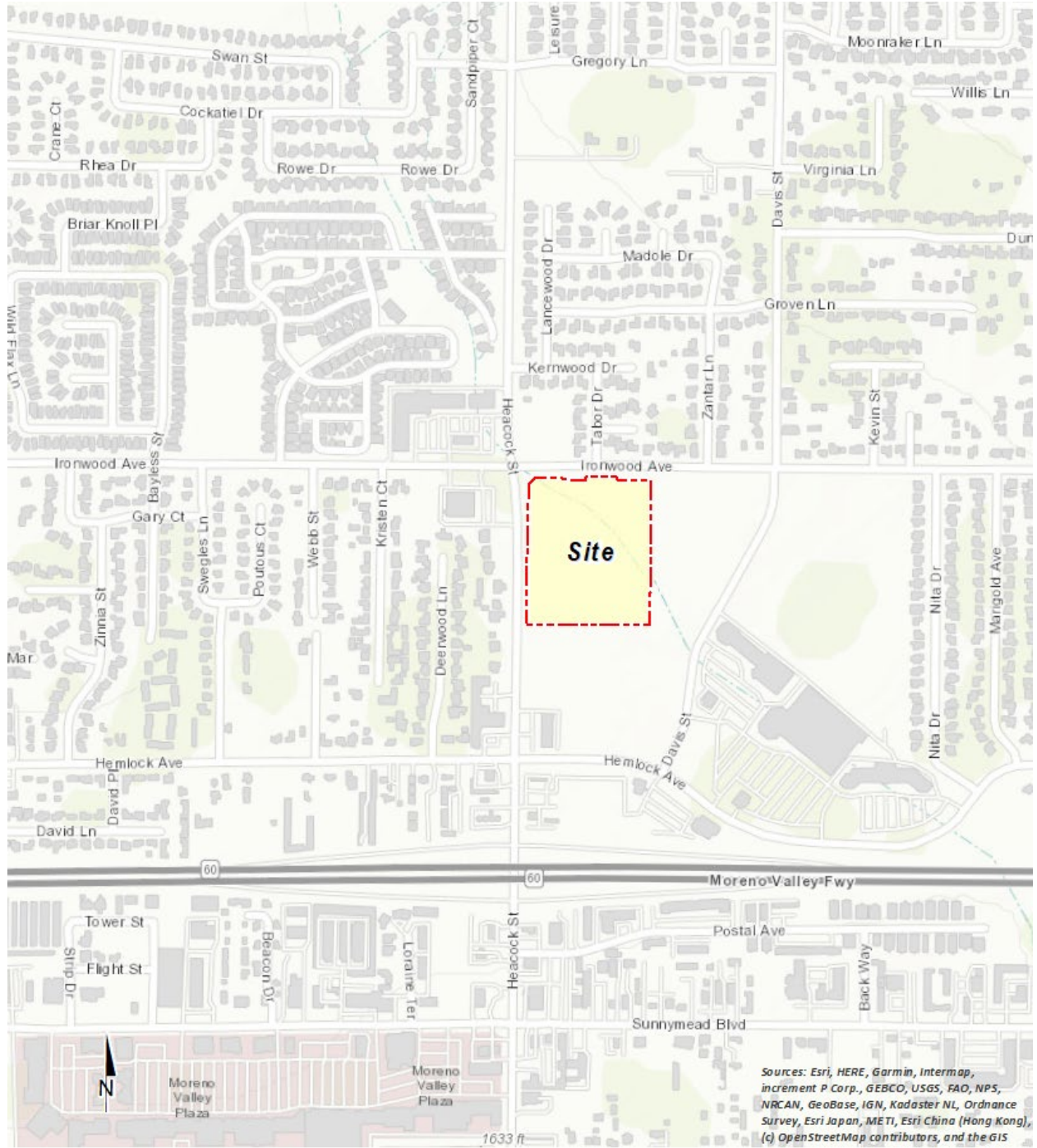
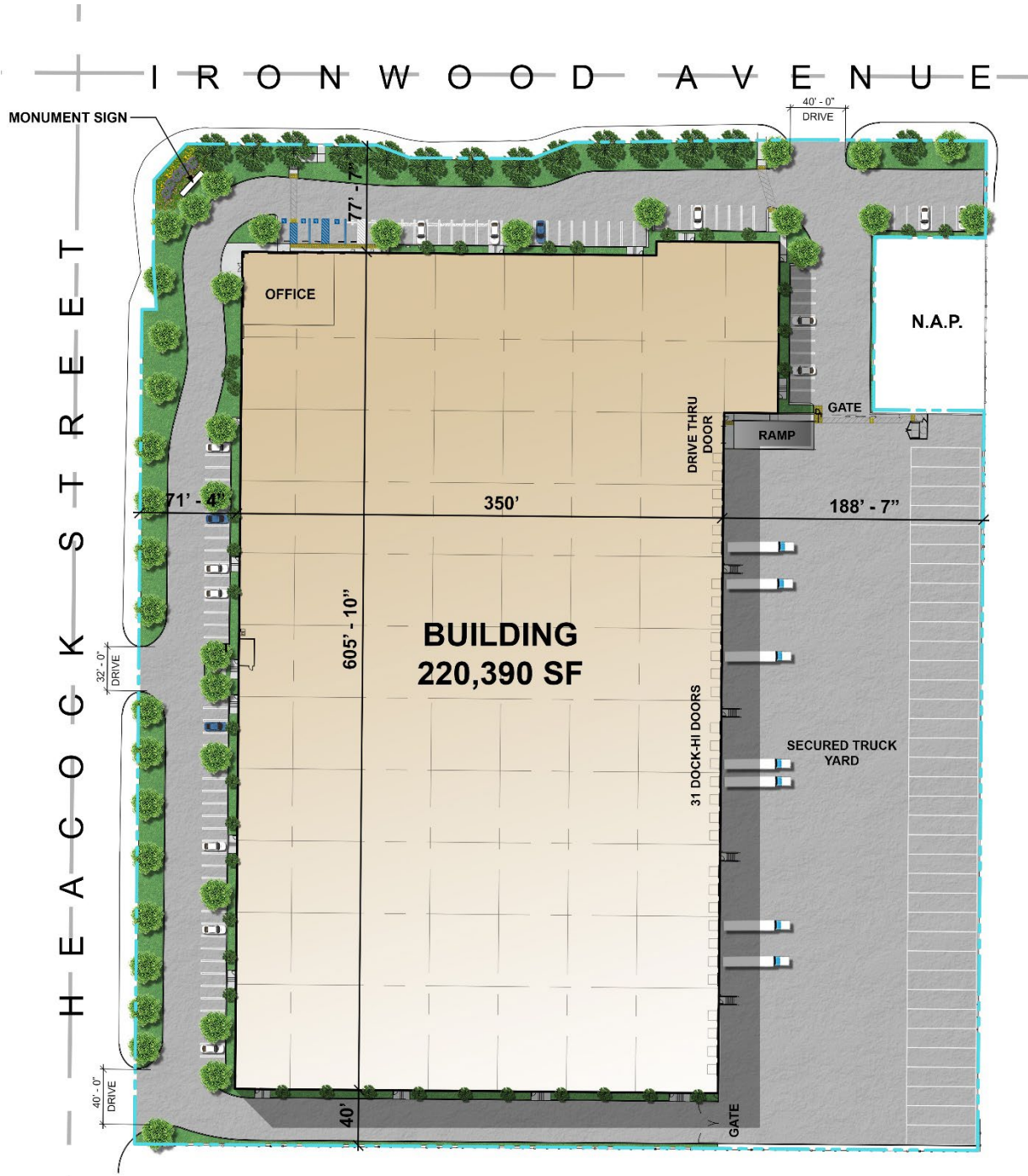


EXHIBIT 1-B: SITE PLAN



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## 2 BACKGROUND

### 2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on SCAQMD guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per  $\mu\text{g}/\text{m}^3$  is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95<sup>th</sup> percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.<sup>2</sup> The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

### 2.2 CONSTRUCTION HEALTH RISK ASSESSMENT

#### 2.2.1 EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *Moreno Valley Business Park – Phase II Air Quality Impact Analysis* (“technical study”) prepared by Urban Crossroads, Inc. (5)

Construction related DPM emissions are expected to occur primarily as a function of heavy-duty construction equipment that would be operating on-site.

As discussed in the technical study, the Project would result in approximately 320 total working-days for construction activity. The construction duration by activity is shown on Table 2-1. A detailed summary of construction equipment assumptions by activity is provided at Table 2-2. The CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated on Exhibit 2-A.

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<sup>2</sup> Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.



**TABLE 2-1: CONSTRUCTION DURATION**

Activity	Start Date	End Date	Days
Site Preparation	08/01/2022	08/12/2022	10
Grading	08/13/2022	09/09/2022	20
Building Construction	09/10/2022	07/28/2023	230
Paving	07/03/2023	07/28/2023	20
Architectural Coating	06/05/2023	07/28/2023	40

**TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

Activity	Equipment <sup>1</sup>	Amount	Hours Per Day
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	3	8
	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

**EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES**



**LEGEND:**



Construction Activity

## 2.3 OPERATIONAL HEALTH RISK ASSESSMENT

### 2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10 $\mu$ m in diameter (PM<sub>10</sub>) generated with the 2017 version of the Emission FACTor model (EMFAC) developed by the CARB. EMFAC 2017 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (6). The most recent version of this model, EMFAC 2017, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2017. Emission factors calculated using EMFAC 2017 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM<sub>10</sub> emission factors were generated by running EMFAC 2017 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2023 EMFAC 2017 run was conducted and a static 2023 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2023 emission factors would overstate potential impacts since this approach assumes that emission factors remain “static” and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2023. Additionally, based on EMFAC 2017, Light-Heavy-Duty Trucks are comprised of 45.1% diesel, Medium-Heavy-Duty Trucks are comprised of 91.0% diesel, and Heavy-Heavy-Duty Trucks are comprised of 92.8% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (7):

$$\text{Emissions}_{\text{SpeedA}} \text{ (g/s)} = \text{EF}_{\text{RunExhaust}} \text{ (g/VMT)} * \text{Distance (VMT/trip)} * \text{Number of Trips (trips/day)} / \text{seconds per day}$$

Where:

$\text{Emissions}_{\text{SpeedA}}$  (g/s): Vehicle emissions at a given speed A;

$\text{EF}_{\text{RunExhaust}}$  (g/VMT): EMFAC running exhaust PM<sub>10</sub> emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM<sub>10</sub> emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (7):

$$\text{Emissions}_{\text{idle}} \text{ (g/s)} = \text{EF}_{\text{idle}} \text{ (g/hr)} * \text{Number of Trips (trips/day)} * \text{Idling Time (min/trip)} * 60 \text{ minutes per hour} / \text{seconds per day}$$

Where:

$\text{Emissions}_{\text{idle}}$  (g/s): Vehicle emissions during idling;

$\text{EF}_{\text{idle}}$  (g/s): EMFAC idle exhaust PM<sub>10</sub> emission factor.

**TABLE 2-3: 2023 WEIGHTED AVERAGE DPM EMISSIONS FACTORS**

Speed	Weighted Average
0 (idling)	0.10339 (g/idle-hr)
5	0.01648 (g/s)
25	0.00738 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.3. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-4. The modeled emission sources are illustrated on Exhibit 2-B for on-site sources and Exhibit 2-C for off-site sources. The modeling domain is limited to the Project’s primary truck route and includes off-site sources in the study area for more than ¼ mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (1) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES

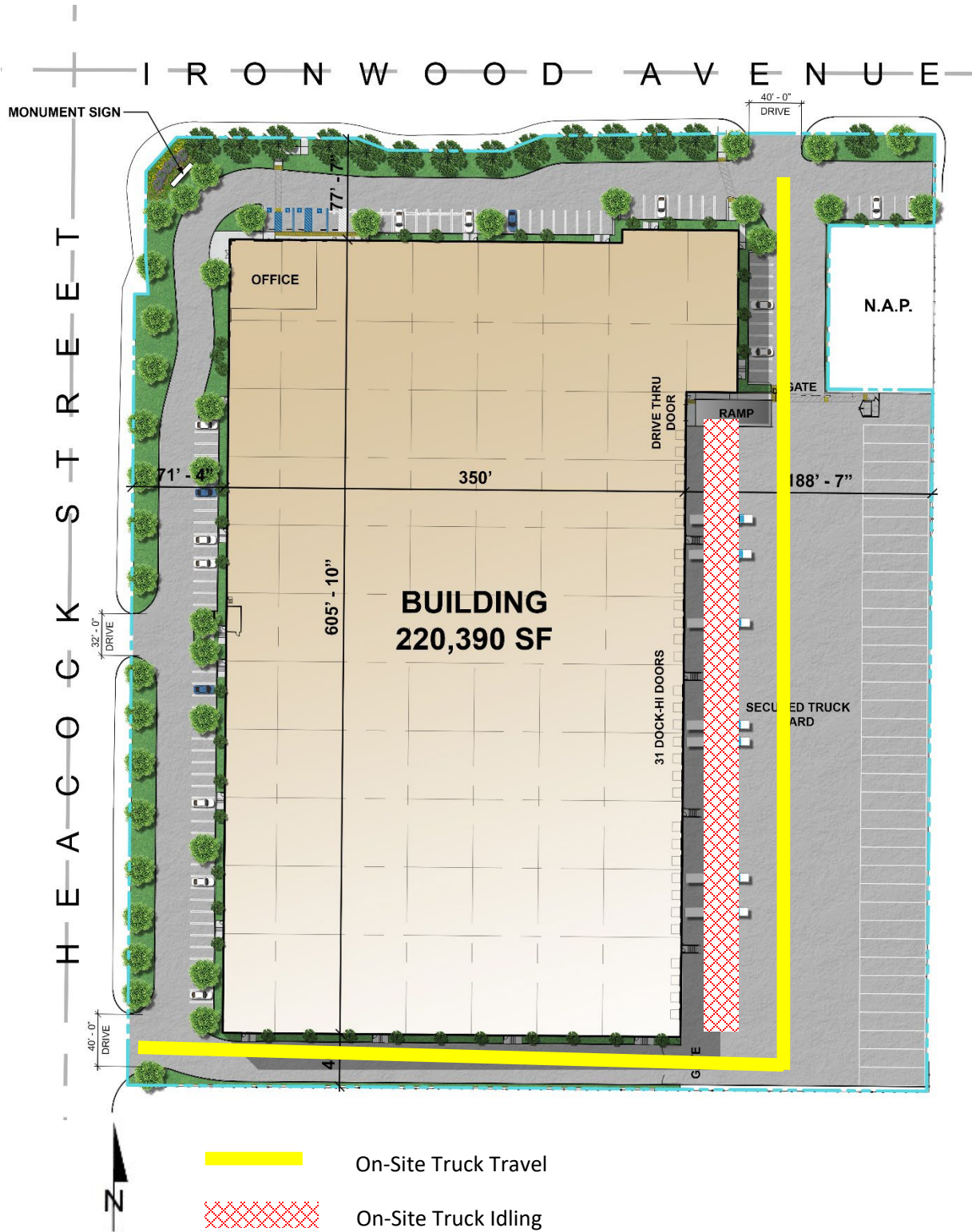
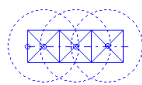
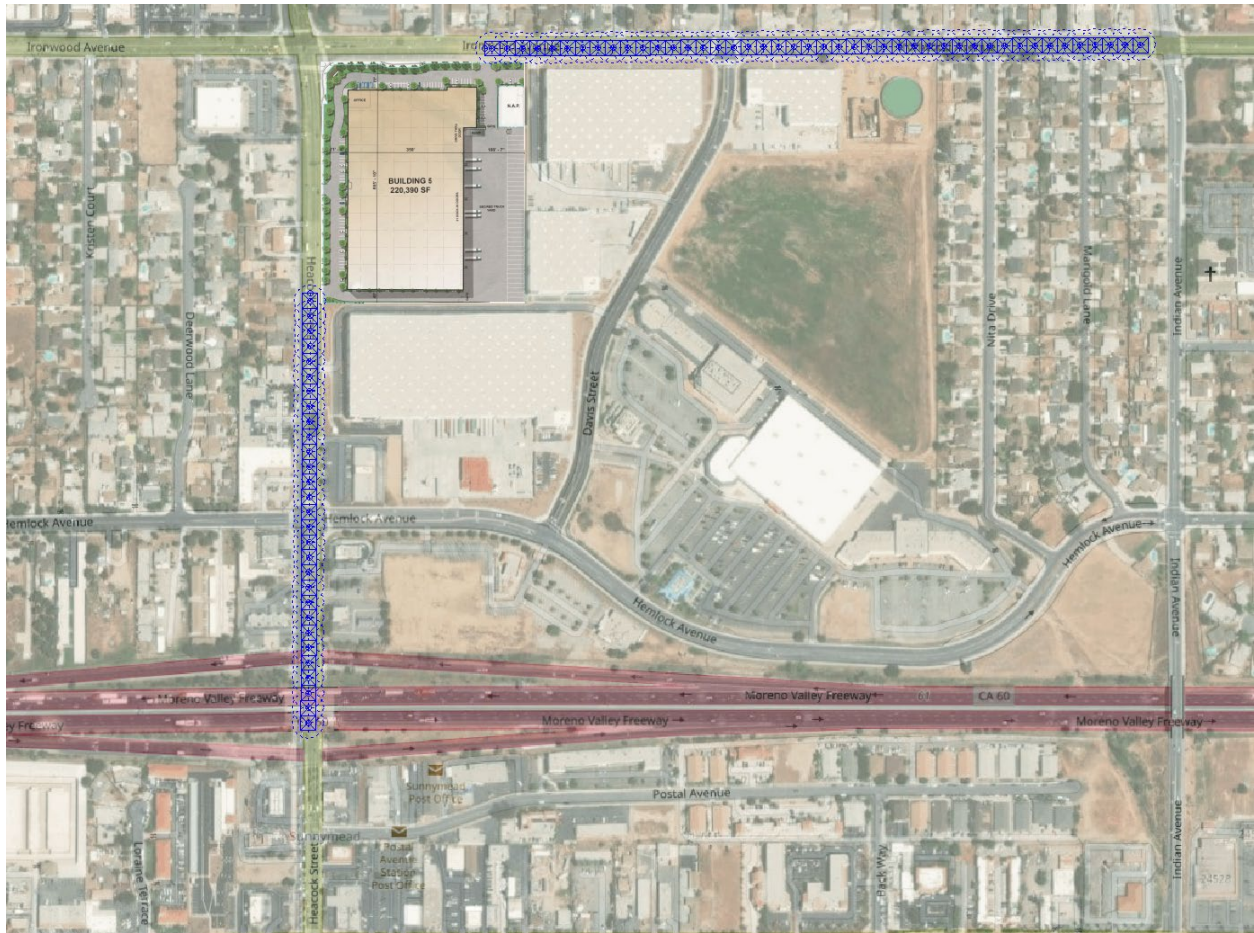


EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES



Off-Site Truck Travel

**TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2023 ANALYSIS YEAR)**

Truck Emission Rates						
Source	Trucks Per Day	VMT <sup>a</sup> (miles/day)	Truck Emission Rate <sup>b</sup> (grams/mile)	Truck Emission Rate <sup>b</sup> (grams/idle-hour)	Daily Truck Emissions <sup>c</sup> (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	64			0.1034	2.35	2.724E-05
On-Site Travel	128	29.26	0.0165		0.55	6.320E-06
Off-Site Travel Ironwood Avenue 10% Inbound/Outbound	13	4.91	0.0074		0.04	4.446E-07
Off-Site Travel Heavock Street 90% Inbound/Outbound	115	29.33	0.0074		0.23	2.655E-06

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes and each TRU idles for 30 minutes.

On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project’s diesel-fueled truck and equipment operators will be required by State law to comply with CARB’s idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (8), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD’s recommendation.

As summarized in the *Moreno Valley Business Park – Phase II Vehicle Miles Traveled Analysis* prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 498 vehicular trips-ends per day (actual vehicles) which includes 128 two-way truck trips per day (4).

### 2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2). SCAQMD recommends using the Environmental Protection Agency’s (U.S. EPA’s) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 10.2.1) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA’s latest AERMOD Version 21112 (9).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA’s haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project’s modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

SCAQMD-recommended model parameters are presented in Table 2-5 (10). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD’s Perris monitoring station (SRA 24) was used to represent local weather conditions and prevailing winds (11).

**TABLE 2-5: AERMOD MODEL PARAMETERS**

Dispersion Coefficient (Urban/Rural)	Urban (Population 2,189,641)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project site’s vicinity. The AERMOD dispersion model summary output files for the



proposed Project are presented in Appendix 2.3. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace’s building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents and workers over a period of 30 or 25 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker) land uses in the vicinity of the Project. These receptors are included in the HRA since residents and workers may be exposed at these locations over a long-term duration of 30 and 25 years, respectively. This methodology is consistent with SCAQMD and OEHHA recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR and MEIW because concentrations dissipate with distance.

Consistent with SCAQMD modeling guidance, all receptors were set to existing elevation height so that only ground-level concentrations are analyzed (12). United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-6 through 2-7 summarize the Exposure Parameters for Residents and Workers based on 2015 OEHHA Guidelines. Appendix 2.4 includes the detailed risk calculation.

**TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
0 to 2	1,090	10	2	0.85	345	8

**TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24

2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

**TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

## 2.4 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)<sup>-1</sup> to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

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

Where:

DOSE<sub>air</sub> = chronic daily intake (mg/kg/day)

C<sub>air</sub> = concentration of contaminant in air (ug/m<sup>3</sup>)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

- A = inhalation absorption factor
- EF = exposure frequency (days/365 days)
- BW = body weight (kg)
- $1 \times 10^{-6}$  = conversion factors (ug to mg, L to m3)

$$\text{RISK}_{\text{air}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ED}/\text{AT}$$

Where:

- DOSE<sub>air</sub> = chronic daily intake (mg/kg/day)
- CPF = cancer potency factor
- ED = number of years within particular age group
- AT = averaging time

## 2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound’s annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as  $5 \mu\text{g}/\text{m}^3$  (OEHHA Toxicity Criteria Database, <http://www.oehha.org/risk/chemicaldb/index.asp>).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$\text{HI}_{\text{DPM}} = \text{C}_{\text{DPM}}/\text{REL}_{\text{DPM}}$$

Where:

- HI<sub>DPM</sub> = Hazard Index; an expression of the potential for non-cancer health effects.
- C<sub>DPM</sub> = Annual average DPM concentration ( $\mu\text{g}/\text{m}^3$ ).
- REL<sub>DPM</sub> = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

## 2.6 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction DPM source emissions is Location R4 which is located approximately 103 feet west of the Project site at an existing residence located at 12085 Heacock Street. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 6.04 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.02, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R4 which is located approximately 103 feet west of the Project site at an existing residence located at 12085 Heacock Street. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.79 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

#### Worker Exposure Scenario<sup>3</sup>:

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R6, which represents the adjacent potential worker receptor approximately 5 feet east of the Project site. At the MEIR, the maximum incremental cancer risk impact is 0.36 in one million which is less than the SCAQMD's threshold of 10 in one million.

3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyze herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

There are no existing schools, and no schools are proposed, within one-quarter mile of the Project site. The school nearest the Project site is Midland Elementary School, which is located 0.5 miles north of the site. Accordingly, the Project would have no potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. Moreover, as substantiated in this analysis, at the MEIR evaluated herein (located only 103 feet from the Project site) health risk thresholds would not be exceed or even approached.

In this latter regard, proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

The one-quarter mile radius or 1,320 feet geographic scope utilized for determining potential impacts to nearby schools is more robust than, and therefore provides a more health protective scenario for evaluation than the CARB 1,000-foot impact radius identified previously.

EXHIBIT 2-D: RECEPTOR LOCATIONS



**LEGEND:**

- N
- Site Boundary
- Receptor Locations
- Distance from receptor to Project site boundary (in feet)

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### 3 REFERENCES

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3. **Goss, Tracy A and Kroeger, Amy.** White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. [Cited: June 6, 2019.] <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf?sfvrsn=2>.
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12. —. South Coast AQMD Modeling Guidance for AERMOD. [Online] [Cited: September 18, 2019.] <http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance>.



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## 4 CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Moreno Valley Business Park – Phase II Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

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### EDUCATION

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June 2006

### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013  
Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

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**APPENDIX 2.1:**  
**CALEEMOD OUTPUTS**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**Moreno Valley Business Park - Phase II (Construction - Unmitigated)**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area is 9.98 acres

Construction Phase - Construction anticipated to begin August 2022 and end in July 2023

Off-road Equipment - Hours are based on an 8-hour workday

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction

Grading - This analysis conservatively assumes that the entire Project site (approximately 10 acres) can be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	15.20	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	200.00

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

tblGrading	AcresOfGrading	35.00	100.00
tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	40.99	0.00
tblSolidWaste	SolidWasteGenerationRate	31.08	0.00
tblSolidWaste	SolidWasteGenerationRate	145.01	0.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	71.00	63.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	35,674,937.50	0.00



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.5548	50.5852	25.8915	0.0731	28.8917	2.1618	31.0535	11.1347	1.9889	13.1236	0.0000	7,217.4644	7,217.4644	1.7896	0.2268	7,314.4191
2023	51.5962	40.7222	43.8148	0.1039	3.0303	1.7517	4.7820	0.8128	1.6345	2.4473	0.0000	10,222.8718	10,222.8718	1.9125	0.2276	10,338.5105
<b>Maximum</b>	<b>51.5962</b>	<b>50.5852</b>	<b>43.8148</b>	<b>0.1039</b>	<b>28.8917</b>	<b>2.1618</b>	<b>31.0535</b>	<b>11.1347</b>	<b>1.9889</b>	<b>13.1236</b>	<b>0.0000</b>	<b>10,222.8718</b>	<b>10,222.8718</b>	<b>1.9125</b>	<b>0.2276</b>	<b>10,338.5105</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.5548	50.5852	25.8915	0.0731	11.4022	2.1618	13.5640	4.3784	1.9889	6.3673	0.0000	7,217.4644	7,217.4644	1.7896	0.2268	7,314.4191
2023	51.5962	40.7222	43.8148	0.1039	3.0303	1.7517	4.7820	0.8128	1.6345	2.4473	0.0000	10,222.8718	10,222.8718	1.9125	0.2276	10,338.5105
<b>Maximum</b>	<b>51.5962</b>	<b>50.5852</b>	<b>43.8148</b>	<b>0.1039</b>	<b>11.4022</b>	<b>2.1618</b>	<b>13.5640</b>	<b>4.3784</b>	<b>1.9889</b>	<b>6.3673</b>	<b>0.0000</b>	<b>10,222.8718</b>	<b>10,222.8718</b>	<b>1.9125</b>	<b>0.2276</b>	<b>10,338.5105</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
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>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.1231</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	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
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>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.1231</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/12/2022	5	10	
2	Grading	Grading	8/13/2022	9/9/2022	5	20	
3	Building Construction	Building Construction	9/10/2022	7/28/2023	5	230	
4	Architectural Coating	Architectural Coating	6/5/2023	7/28/2023	5	40	
5	Paving	Paving	7/3/2023	7/28/2023	5	20	

**Acres of Grading (Site Preparation Phase): 100**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 4.92**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,585; Non-Residential Outdoor: 110,195; Striped Parking Area: 12,867 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	183.00	63.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	37.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.2 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					28.6713	0.0000	28.6713	11.0758	0.0000	11.0758			0.0000			0.0000
Off-Road	4.4790	50.4124	20.0053	0.0570		2.1590	2.1590		1.9862	1.9862		5,517.2355	5,517.2355	1.7844		5,561.8451
<b>Total</b>	<b>4.4790</b>	<b>50.4124</b>	<b>20.0053</b>	<b>0.0570</b>	<b>28.6713</b>	<b>2.1590</b>	<b>30.8302</b>	<b>11.0758</b>	<b>1.9862</b>	<b>13.0620</b>		<b>5,517.2355</b>	<b>5,517.2355</b>	<b>1.7844</b>		<b>5,561.8451</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	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	4.8800e-003	0.1269	0.0441	5.5000e-004	0.0192	1.8300e-003	0.0210	5.5300e-003	1.7500e-003	7.2800e-003		57.8836	57.8836	6.1000e-004	8.5800e-003	60.4569
Worker	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158
<b>Total</b>	<b>0.0758</b>	<b>0.1728</b>	<b>0.7617</b>	<b>2.3800e-003</b>	<b>0.2204</b>	<b>2.8300e-003</b>	<b>0.2232</b>	<b>0.0589</b>	<b>2.6700e-003</b>	<b>0.0616</b>		<b>243.9206</b>	<b>243.9206</b>	<b>5.2200e-003</b>	<b>0.0132</b>	<b>247.9727</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.2 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	lb/day										lb/day					
Fugitive Dust					11.1818	0.0000	11.1818	4.3196	0.0000	4.3196			0.0000			0.0000
Off-Road	4.4790	50.4124	20.0053	0.0570		2.1590	2.1590		1.9862	1.9862	0.0000	5,517.235 5	5,517.235 5	1.7844		5,561.845 1
<b>Total</b>	<b>4.4790</b>	<b>50.4124</b>	<b>20.0053</b>	<b>0.0570</b>	<b>11.1818</b>	<b>2.1590</b>	<b>13.3407</b>	<b>4.3196</b>	<b>1.9862</b>	<b>6.3058</b>	<b>0.0000</b>	<b>5,517.235 5</b>	<b>5,517.235 5</b>	<b>1.7844</b>		<b>5,561.845 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8800e-003	0.1269	0.0441	5.5000e-004	0.0192	1.8300e-003	0.0210	5.5300e-003	1.7500e-003	7.2800e-003		57.8836	57.8836	6.1000e-004	8.5800e-003	60.4569
Worker	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158
<b>Total</b>	<b>0.0758</b>	<b>0.1728</b>	<b>0.7617</b>	<b>2.3800e-003</b>	<b>0.2204</b>	<b>2.8300e-003</b>	<b>0.2232</b>	<b>0.0589</b>	<b>2.6700e-003</b>	<b>0.0616</b>		<b>243.9206</b>	<b>243.9206</b>	<b>5.2200e-003</b>	<b>0.0132</b>	<b>247.9727</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.3 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					16.6271	0.0000	16.6271	4.4553	0.0000	4.4553			0.0000			0.0000
Off-Road	2.9303	33.8518	15.5033	0.0438		1.3506	1.3506		1.2426	1.2426		4,245.4266	4,245.4266	1.3731		4,279.7531
<b>Total</b>	<b>2.9303</b>	<b>33.8518</b>	<b>15.5033</b>	<b>0.0438</b>	<b>16.6271</b>	<b>1.3506</b>	<b>17.9777</b>	<b>4.4553</b>	<b>1.2426</b>	<b>5.6979</b>		<b>4,245.4266</b>	<b>4,245.4266</b>	<b>1.3731</b>		<b>4,279.7531</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	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	8.1400e-003	0.2114	0.0735	9.1000e-004	0.0320	3.0500e-003	0.0351	9.2200e-003	2.9200e-003	0.0121		96.4727	96.4727	1.0200e-003	0.0143	100.7615
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
<b>Total</b>	<b>0.0673</b>	<b>0.2497</b>	<b>0.6715</b>	<b>2.4300e-003</b>	<b>0.1997</b>	<b>3.8900e-003</b>	<b>0.2036</b>	<b>0.0537</b>	<b>3.6900e-003</b>	<b>0.0574</b>		<b>251.5035</b>	<b>251.5035</b>	<b>4.8600e-003</b>	<b>0.0181</b>	<b>257.0247</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.3 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	lb/day										lb/day					
Fugitive Dust					6.4846	0.0000	6.4846	1.7376	0.0000	1.7376			0.0000			0.0000
Off-Road	2.9303	33.8518	15.5033	0.0438		1.3506	1.3506		1.2426	1.2426	0.0000	4,245.4266	4,245.4266	1.3731		4,279.7530
<b>Total</b>	<b>2.9303</b>	<b>33.8518</b>	<b>15.5033</b>	<b>0.0438</b>	<b>6.4846</b>	<b>1.3506</b>	<b>7.8352</b>	<b>1.7376</b>	<b>1.2426</b>	<b>2.9801</b>	<b>0.0000</b>	<b>4,245.4266</b>	<b>4,245.4266</b>	<b>1.3731</b>		<b>4,279.7530</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1400e-003	0.2114	0.0735	9.1000e-004	0.0320	3.0500e-003	0.0351	9.2200e-003	2.9200e-003	0.0121		96.4727	96.4727	1.0200e-003	0.0143	100.7615
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
<b>Total</b>	<b>0.0673</b>	<b>0.2497</b>	<b>0.6715</b>	<b>2.4300e-003</b>	<b>0.1997</b>	<b>3.8900e-003</b>	<b>0.2036</b>	<b>0.0537</b>	<b>3.6900e-003</b>	<b>0.0574</b>		<b>251.5035</b>	<b>251.5035</b>	<b>4.8600e-003</b>	<b>0.0181</b>	<b>257.0247</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.4 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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.532 2	4,110.532 2	1.1153		4,138.413 5
<b>Total</b>	<b>2.7963</b>	<b>29.7637</b>	<b>17.6698</b>	<b>0.0430</b>		<b>1.2743</b>	<b>1.2743</b>		<b>1.1892</b>	<b>1.1892</b>		<b>4,110.532 2</b>	<b>4,110.532 2</b>	<b>1.1153</b>		<b>4,138.413 5</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	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	0.1025	2.6640	0.9263	0.0115	0.4035	0.0384	0.4419	0.1162	0.0368	0.1529		1,215.555 6	1,215.555 6	0.0129	0.1803	1,269.595 2
Worker	0.7212	0.4674	7.2954	0.0186	2.0455	0.0102	2.0557	0.5425	9.3900e-003	0.5519		1,891.376 6	1,891.376 6	0.0469	0.0465	1,906.410 5
<b>Total</b>	<b>0.8237</b>	<b>3.1314</b>	<b>8.2217</b>	<b>0.0301</b>	<b>2.4490</b>	<b>0.0486</b>	<b>2.4976</b>	<b>0.6587</b>	<b>0.0461</b>	<b>0.7048</b>		<b>3,106.932 2</b>	<b>3,106.932 2</b>	<b>0.0597</b>	<b>0.2268</b>	<b>3,176.005 7</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.4 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	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.532 2	4,110.532 2	1.1153		4,138.413 5
<b>Total</b>	<b>2.7963</b>	<b>29.7637</b>	<b>17.6698</b>	<b>0.0430</b>		<b>1.2743</b>	<b>1.2743</b>		<b>1.1892</b>	<b>1.1892</b>	<b>0.0000</b>	<b>4,110.532 2</b>	<b>4,110.532 2</b>	<b>1.1153</b>		<b>4,138.413 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1025	2.6640	0.9263	0.0115	0.4035	0.0384	0.4419	0.1162	0.0368	0.1529		1,215.555 6	1,215.555 6	0.0129	0.1803	1,269.595 2
Worker	0.7212	0.4674	7.2954	0.0186	2.0455	0.0102	2.0557	0.5425	9.3900e-003	0.5519		1,891.376 6	1,891.376 6	0.0469	0.0465	1,906.410 5
<b>Total</b>	<b>0.8237</b>	<b>3.1314</b>	<b>8.2217</b>	<b>0.0301</b>	<b>2.4490</b>	<b>0.0486</b>	<b>2.4976</b>	<b>0.6587</b>	<b>0.0461</b>	<b>0.7048</b>		<b>3,106.932 2</b>	<b>3,106.932 2</b>	<b>0.0597</b>	<b>0.2268</b>	<b>3,176.005 7</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.4 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	2.5519	26.2044	17.3471	0.0430		1.1169	1.1169		1.0422	1.0422		4,108.239 2	4,108.239 2	1.1101		4,135.992 4
<b>Total</b>	<b>2.5519</b>	<b>26.2044</b>	<b>17.3471</b>	<b>0.0430</b>		<b>1.1169</b>	<b>1.1169</b>		<b>1.0422</b>	<b>1.0422</b>		<b>4,108.239 2</b>	<b>4,108.239 2</b>	<b>1.1101</b>		<b>4,135.992 4</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	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	0.0710	2.0583	0.8475	0.0110	0.4035	0.0179	0.4214	0.1162	0.0172	0.1333		1,167.207 3	1,167.207 3	0.0119	0.1725	1,218.903 4
Worker	0.6686	0.4131	6.7135	0.0180	2.0455	9.6000e-003	2.0551	0.5425	8.8300e-003	0.5513		1,841.351 5	1,841.351 5	0.0420	0.0429	1,855.196 2
<b>Total</b>	<b>0.7396</b>	<b>2.4714</b>	<b>7.5610</b>	<b>0.0290</b>	<b>2.4490</b>	<b>0.0275</b>	<b>2.4765</b>	<b>0.6587</b>	<b>0.0260</b>	<b>0.6846</b>		<b>3,008.558 8</b>	<b>3,008.558 8</b>	<b>0.0539</b>	<b>0.2154</b>	<b>3,074.099 6</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.4 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	lb/day										lb/day					
Off-Road	2.5519	26.2044	17.3471	0.0430		1.1169	1.1169		1.0422	1.0422	0.0000	4,108.239 2	4,108.239 2	1.1101		4,135.992 4
<b>Total</b>	<b>2.5519</b>	<b>26.2044</b>	<b>17.3471</b>	<b>0.0430</b>		<b>1.1169</b>	<b>1.1169</b>		<b>1.0422</b>	<b>1.0422</b>	<b>0.0000</b>	<b>4,108.239 2</b>	<b>4,108.239 2</b>	<b>1.1101</b>		<b>4,135.992 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0710	2.0583	0.8475	0.0110	0.4035	0.0179	0.4214	0.1162	0.0172	0.1333		1,167.207 3	1,167.207 3	0.0119	0.1725	1,218.903 4
Worker	0.6686	0.4131	6.7135	0.0180	2.0455	9.6000e-003	2.0551	0.5425	8.8300e-003	0.5513		1,841.351 5	1,841.351 5	0.0420	0.0429	1,855.196 2
<b>Total</b>	<b>0.7396</b>	<b>2.4714</b>	<b>7.5610</b>	<b>0.0290</b>	<b>2.4490</b>	<b>0.0275</b>	<b>2.4765</b>	<b>0.6587</b>	<b>0.0260</b>	<b>0.6846</b>		<b>3,008.558 8</b>	<b>3,008.558 8</b>	<b>0.0539</b>	<b>0.2154</b>	<b>3,074.099 6</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.5 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	46.1819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>46.4375</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**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	0.1352	0.0835	1.3574	3.6400e-003	0.4136	1.9400e-003	0.4155	0.1097	1.7900e-003	0.1115		372.2951	372.2951	8.5000e-003	8.6800e-003	375.0943
<b>Total</b>	<b>0.1352</b>	<b>0.0835</b>	<b>1.3574</b>	<b>3.6400e-003</b>	<b>0.4136</b>	<b>1.9400e-003</b>	<b>0.4155</b>	<b>0.1097</b>	<b>1.7900e-003</b>	<b>0.1115</b>		<b>372.2951</b>	<b>372.2951</b>	<b>8.5000e-003</b>	<b>8.6800e-003</b>	<b>375.0943</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.5 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	lb/day										lb/day					
Archit. Coating	46.1819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>46.4375</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**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	0.1352	0.0835	1.3574	3.6400e-003	0.4136	1.9400e-003	0.4155	0.1097	1.7900e-003	0.1115		372.2951	372.2951	8.5000e-003	8.6800e-003	375.0943
<b>Total</b>	<b>0.1352</b>	<b>0.0835</b>	<b>1.3574</b>	<b>3.6400e-003</b>	<b>0.4136</b>	<b>1.9400e-003</b>	<b>0.4155</b>	<b>0.1097</b>	<b>1.7900e-003</b>	<b>0.1115</b>		<b>372.2951</b>	<b>372.2951</b>	<b>8.5000e-003</b>	<b>8.6800e-003</b>	<b>375.0943</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.6445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6773</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
<b>Total</b>	<b>0.0548</b>	<b>0.0339</b>	<b>0.5503</b>	<b>1.4700e-003</b>	<b>0.1677</b>	<b>7.9000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>150.9305</b>	<b>150.9305</b>	<b>3.4500e-003</b>	<b>3.5200e-003</b>	<b>152.0653</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.6445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6773</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
<b>Total</b>	<b>0.0548</b>	<b>0.0339</b>	<b>0.5503</b>	<b>1.4700e-003</b>	<b>0.1677</b>	<b>7.9000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>150.9305</b>	<b>150.9305</b>	<b>3.4500e-003</b>	<b>3.5200e-003</b>	<b>152.0653</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	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
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	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
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	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
Manufacturing	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Refrigerated Warehouse-No Rail	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Unrefrigerated Warehouse-No Rail	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

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

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	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
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
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	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
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
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
Unmitigated	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231

**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	0.5761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9900e-003	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
<b>Total</b>	<b>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>		<b>0.1231</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9900e-003	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
<b>Total</b>	<b>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>		<b>0.1231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**Moreno Valley Business Park - Phase II (Construction - Unmitigated)**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area is 9.98 acres

Construction Phase - Construction anticipated to begin August 2022 and end in July 2023

Off-road Equipment - Hours are based on an 8-hour workday

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction

Grading - This analysis conservatively assumes that the entire Project site (approximately 10 acres) can be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	15.20	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	200.00

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

tblGrading	AcresOfGrading	35.00	100.00
tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	40.99	0.00
tblSolidWaste	SolidWasteGenerationRate	31.08	0.00
tblSolidWaste	SolidWasteGenerationRate	145.01	0.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	71.00	63.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	35,674,937.50	0.00

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.5499	50.5937	24.5441	0.0713	28.8917	2.1618	31.0535	11.1347	1.9889	13.1236	0.0000	7,040.6116	7,040.6116	1.7896	0.2282	7,137.9829
2023	51.5371	40.8667	42.2227	0.1017	3.0303	1.7518	4.7820	0.8128	1.6345	2.4473	0.0000	10,003.7107	10,003.7107	1.9120	0.2295	10,119.8955
<b>Maximum</b>	<b>51.5371</b>	<b>50.5937</b>	<b>42.2227</b>	<b>0.1017</b>	<b>28.8917</b>	<b>2.1618</b>	<b>31.0535</b>	<b>11.1347</b>	<b>1.9889</b>	<b>13.1236</b>	<b>0.0000</b>	<b>10,003.7107</b>	<b>10,003.7107</b>	<b>1.9120</b>	<b>0.2295</b>	<b>10,119.8955</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.5499	50.5937	24.5441	0.0713	11.4022	2.1618	13.5640	4.3784	1.9889	6.3674	0.0000	7,040.6116	7,040.6116	1.7896	0.2282	7,137.9829
2023	51.5371	40.8667	42.2227	0.1017	3.0303	1.7518	4.7820	0.8128	1.6345	2.4473	0.0000	10,003.7107	10,003.7107	1.9120	0.2295	10,119.8955
<b>Maximum</b>	<b>51.5371</b>	<b>50.5937</b>	<b>42.2227</b>	<b>0.1017</b>	<b>11.4022</b>	<b>2.1618</b>	<b>13.5640</b>	<b>4.3784</b>	<b>1.9889</b>	<b>6.3674</b>	<b>0.0000</b>	<b>10,003.7107</b>	<b>10,003.7107</b>	<b>1.9120</b>	<b>0.2295</b>	<b>10,119.8955</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
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>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.1231</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	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
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>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.1231</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/12/2022	5	10	
2	Grading	Grading	8/13/2022	9/9/2022	5	20	
3	Building Construction	Building Construction	9/10/2022	7/28/2023	5	230	
4	Architectural Coating	Architectural Coating	6/5/2023	7/28/2023	5	40	
5	Paving	Paving	7/3/2023	7/28/2023	5	20	

**Acres of Grading (Site Preparation Phase): 100**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 4.92**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,585; Non-Residential Outdoor: 110,195; Striped Parking Area: 12,867 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	183.00	63.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	37.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.2 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					28.6713	0.0000	28.6713	11.0758	0.0000	11.0758			0.0000			0.0000
Off-Road	4.4790	50.4124	20.0053	0.0570		2.1590	2.1590		1.9862	1.9862		5,517.2355	5,517.2355	1.7844		5,561.8451
<b>Total</b>	<b>4.4790</b>	<b>50.4124</b>	<b>20.0053</b>	<b>0.0570</b>	<b>28.6713</b>	<b>2.1590</b>	<b>30.8302</b>	<b>11.0758</b>	<b>1.9862</b>	<b>13.0620</b>		<b>5,517.2355</b>	<b>5,517.2355</b>	<b>1.7844</b>		<b>5,561.8451</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	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	4.6700e-003	0.1337	0.0458	5.5000e-004	0.0192	1.8300e-003	0.0211	5.5300e-003	1.7500e-003	7.2900e-003		57.9467	57.9467	6.0000e-004	8.6000e-003	60.5246
Worker	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216
<b>Total</b>	<b>0.0709</b>	<b>0.1814</b>	<b>0.6274</b>	<b>2.2100e-003</b>	<b>0.2204</b>	<b>2.8300e-003</b>	<b>0.2233</b>	<b>0.0589</b>	<b>2.6700e-003</b>	<b>0.0616</b>		<b>226.4580</b>	<b>226.4580</b>	<b>5.1800e-003</b>	<b>0.0133</b>	<b>230.5462</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.2 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	lb/day										lb/day					
Fugitive Dust					11.1818	0.0000	11.1818	4.3196	0.0000	4.3196			0.0000			0.0000
Off-Road	4.4790	50.4124	20.0053	0.0570		2.1590	2.1590		1.9862	1.9862	0.0000	5,517.235 5	5,517.235 5	1.7844		5,561.845 1
<b>Total</b>	<b>4.4790</b>	<b>50.4124</b>	<b>20.0053</b>	<b>0.0570</b>	<b>11.1818</b>	<b>2.1590</b>	<b>13.3407</b>	<b>4.3196</b>	<b>1.9862</b>	<b>6.3058</b>	<b>0.0000</b>	<b>5,517.235 5</b>	<b>5,517.235 5</b>	<b>1.7844</b>		<b>5,561.845 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6700e-003	0.1337	0.0458	5.5000e-004	0.0192	1.8300e-003	0.0211	5.5300e-003	1.7500e-003	7.2900e-003		57.9467	57.9467	6.0000e-004	8.6000e-003	60.5246
Worker	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216
<b>Total</b>	<b>0.0709</b>	<b>0.1814</b>	<b>0.6274</b>	<b>2.2100e-003</b>	<b>0.2204</b>	<b>2.8300e-003</b>	<b>0.2233</b>	<b>0.0589</b>	<b>2.6700e-003</b>	<b>0.0616</b>		<b>226.4580</b>	<b>226.4580</b>	<b>5.1800e-003</b>	<b>0.0133</b>	<b>230.5462</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.3 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					16.6271	0.0000	16.6271	4.4553	0.0000	4.4553			0.0000			0.0000
Off-Road	2.9303	33.8518	15.5033	0.0438		1.3506	1.3506		1.2426	1.2426		4,245.4266	4,245.4266	1.3731		4,279.7531
<b>Total</b>	<b>2.9303</b>	<b>33.8518</b>	<b>15.5033</b>	<b>0.0438</b>	<b>16.6271</b>	<b>1.3506</b>	<b>17.9777</b>	<b>4.4553</b>	<b>1.2426</b>	<b>5.6979</b>		<b>4,245.4266</b>	<b>4,245.4266</b>	<b>1.3731</b>		<b>4,279.7531</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	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	7.7900e-003	0.2228	0.0763	9.1000e-004	0.0320	3.0600e-003	0.0351	9.2200e-003	2.9200e-003	0.0122		96.5779	96.5779	1.0100e-003	0.0143	100.8743
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
<b>Total</b>	<b>0.0630</b>	<b>0.2625</b>	<b>0.5610</b>	<b>2.2900e-003</b>	<b>0.1997</b>	<b>3.9000e-003</b>	<b>0.2036</b>	<b>0.0537</b>	<b>3.6900e-003</b>	<b>0.0574</b>		<b>237.0040</b>	<b>237.0040</b>	<b>4.8200e-003</b>	<b>0.0182</b>	<b>242.5590</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.3 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	lb/day										lb/day					
Fugitive Dust					6.4846	0.0000	6.4846	1.7376	0.0000	1.7376			0.0000			0.0000
Off-Road	2.9303	33.8518	15.5033	0.0438		1.3506	1.3506		1.2426	1.2426	0.0000	4,245.4266	4,245.4266	1.3731		4,279.7530
<b>Total</b>	<b>2.9303</b>	<b>33.8518</b>	<b>15.5033</b>	<b>0.0438</b>	<b>6.4846</b>	<b>1.3506</b>	<b>7.8352</b>	<b>1.7376</b>	<b>1.2426</b>	<b>2.9801</b>	<b>0.0000</b>	<b>4,245.4266</b>	<b>4,245.4266</b>	<b>1.3731</b>		<b>4,279.7530</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7900e-003	0.2228	0.0763	9.1000e-004	0.0320	3.0600e-003	0.0351	9.2200e-003	2.9200e-003	0.0122		96.5779	96.5779	1.0100e-003	0.0143	100.8743
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
<b>Total</b>	<b>0.0630</b>	<b>0.2625</b>	<b>0.5610</b>	<b>2.2900e-003</b>	<b>0.1997</b>	<b>3.9000e-003</b>	<b>0.2036</b>	<b>0.0537</b>	<b>3.6900e-003</b>	<b>0.0574</b>		<b>237.0040</b>	<b>237.0040</b>	<b>4.8200e-003</b>	<b>0.0182</b>	<b>242.5590</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.4 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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.532 2	4,110.532 2	1.1153		4,138.413 5
<b>Total</b>	<b>2.7963</b>	<b>29.7637</b>	<b>17.6698</b>	<b>0.0430</b>		<b>1.2743</b>	<b>1.2743</b>		<b>1.1892</b>	<b>1.1892</b>		<b>4,110.532 2</b>	<b>4,110.532 2</b>	<b>1.1153</b>		<b>4,138.413 5</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	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	0.0981	2.8066	0.9619	0.0115	0.4035	0.0385	0.4420	0.1162	0.0368	0.1530		1,216.881 3	1,216.881 3	0.0127	0.1806	1,271.016 7
Worker	0.6737	0.4851	5.9125	0.0168	2.0455	0.0102	2.0557	0.5425	9.3900e-003	0.5519		1,713.198 1	1,713.198 1	0.0465	0.0476	1,728.552 7
<b>Total</b>	<b>0.7718</b>	<b>3.2917</b>	<b>6.8743</b>	<b>0.0283</b>	<b>2.4490</b>	<b>0.0487</b>	<b>2.4977</b>	<b>0.6587</b>	<b>0.0462</b>	<b>0.7049</b>		<b>2,930.079 4</b>	<b>2,930.079 4</b>	<b>0.0592</b>	<b>0.2282</b>	<b>2,999.569 5</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.4 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	lb/day										lb/day					
Off-Road	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.532 2	4,110.532 2	1.1153		4,138.413 5
<b>Total</b>	<b>2.7963</b>	<b>29.7637</b>	<b>17.6698</b>	<b>0.0430</b>		<b>1.2743</b>	<b>1.2743</b>		<b>1.1892</b>	<b>1.1892</b>	<b>0.0000</b>	<b>4,110.532 2</b>	<b>4,110.532 2</b>	<b>1.1153</b>		<b>4,138.413 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	2.8066	0.9619	0.0115	0.4035	0.0385	0.4420	0.1162	0.0368	0.1530		1,216.881 3	1,216.881 3	0.0127	0.1806	1,271.016 7
Worker	0.6737	0.4851	5.9125	0.0168	2.0455	0.0102	2.0557	0.5425	9.3900e-003	0.5519		1,713.198 1	1,713.198 1	0.0465	0.0476	1,728.552 7
<b>Total</b>	<b>0.7718</b>	<b>3.2917</b>	<b>6.8743</b>	<b>0.0283</b>	<b>2.4490</b>	<b>0.0487</b>	<b>2.4977</b>	<b>0.6587</b>	<b>0.0462</b>	<b>0.7049</b>		<b>2,930.079 4</b>	<b>2,930.079 4</b>	<b>0.0592</b>	<b>0.2282</b>	<b>2,999.569 5</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.4 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	2.5519	26.2044	17.3471	0.0430		1.1169	1.1169		1.0422	1.0422		4,108.239 2	4,108.239 2	1.1101		4,135.992 4
<b>Total</b>	<b>2.5519</b>	<b>26.2044</b>	<b>17.3471</b>	<b>0.0430</b>		<b>1.1169</b>	<b>1.1169</b>		<b>1.0422</b>	<b>1.0422</b>		<b>4,108.239 2</b>	<b>4,108.239 2</b>	<b>1.1101</b>		<b>4,135.992 4</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	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	0.0658	2.1828	0.8760	0.0110	0.4035	0.0180	0.4215	0.1162	0.0172	0.1334		1,170.104 0	1,170.104 0	0.0117	0.1731	1,221.965 4
Worker	0.6267	0.4287	5.4515	0.0163	2.0455	9.6000e-003	2.0551	0.5425	8.8300e-003	0.5513		1,668.429 9	1,668.429 9	0.0419	0.0439	1,682.571 1
<b>Total</b>	<b>0.6924</b>	<b>2.6115</b>	<b>6.3275</b>	<b>0.0273</b>	<b>2.4490</b>	<b>0.0276</b>	<b>2.4766</b>	<b>0.6587</b>	<b>0.0260</b>	<b>0.6847</b>		<b>2,838.533 9</b>	<b>2,838.533 9</b>	<b>0.0536</b>	<b>0.2170</b>	<b>2,904.536 5</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.4 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	lb/day										lb/day					
Off-Road	2.5519	26.2044	17.3471	0.0430		1.1169	1.1169		1.0422	1.0422	0.0000	4,108.239 2	4,108.239 2	1.1101		4,135.992 4
<b>Total</b>	<b>2.5519</b>	<b>26.2044</b>	<b>17.3471</b>	<b>0.0430</b>		<b>1.1169</b>	<b>1.1169</b>		<b>1.0422</b>	<b>1.0422</b>	<b>0.0000</b>	<b>4,108.239 2</b>	<b>4,108.239 2</b>	<b>1.1101</b>		<b>4,135.992 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0658	2.1828	0.8760	0.0110	0.4035	0.0180	0.4215	0.1162	0.0172	0.1334		1,170.104 0	1,170.104 0	0.0117	0.1731	1,221.965 4
Worker	0.6267	0.4287	5.4515	0.0163	2.0455	9.6000e-003	2.0551	0.5425	8.8300e-003	0.5513		1,668.429 9	1,668.429 9	0.0419	0.0439	1,682.571 1
<b>Total</b>	<b>0.6924</b>	<b>2.6115</b>	<b>6.3275</b>	<b>0.0273</b>	<b>2.4490</b>	<b>0.0276</b>	<b>2.4766</b>	<b>0.6587</b>	<b>0.0260</b>	<b>0.6847</b>		<b>2,838.533 9</b>	<b>2,838.533 9</b>	<b>0.0536</b>	<b>0.2170</b>	<b>2,904.536 5</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.5 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	46.1819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>46.4375</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**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	0.1267	0.0867	1.1022	3.3000e-003	0.4136	1.9400e-003	0.4155	0.1097	1.7900e-003	0.1115		337.3328	337.3328	8.4700e-003	8.8800e-003	340.1920
<b>Total</b>	<b>0.1267</b>	<b>0.0867</b>	<b>1.1022</b>	<b>3.3000e-003</b>	<b>0.4136</b>	<b>1.9400e-003</b>	<b>0.4155</b>	<b>0.1097</b>	<b>1.7900e-003</b>	<b>0.1115</b>		<b>337.3328</b>	<b>337.3328</b>	<b>8.4700e-003</b>	<b>8.8800e-003</b>	<b>340.1920</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.5 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	lb/day										lb/day					
Archit. Coating	46.1819					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>46.4375</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**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	0.1267	0.0867	1.1022	3.3000e-003	0.4136	1.9400e-003	0.4155	0.1097	1.7900e-003	0.1115		337.3328	337.3328	8.4700e-003	8.8800e-003	340.1920
<b>Total</b>	<b>0.1267</b>	<b>0.0867</b>	<b>1.1022</b>	<b>3.3000e-003</b>	<b>0.4136</b>	<b>1.9400e-003</b>	<b>0.4155</b>	<b>0.1097</b>	<b>1.7900e-003</b>	<b>0.1115</b>		<b>337.3328</b>	<b>337.3328</b>	<b>8.4700e-003</b>	<b>8.8800e-003</b>	<b>340.1920</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.6445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6773</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
<b>Total</b>	<b>0.0514</b>	<b>0.0351</b>	<b>0.4468</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>7.9000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>136.7566</b>	<b>136.7566</b>	<b>3.4300e-003</b>	<b>3.6000e-003</b>	<b>137.9157</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.6445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6773</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
<b>Total</b>	<b>0.0514</b>	<b>0.0351</b>	<b>0.4468</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>7.9000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>136.7566</b>	<b>136.7566</b>	<b>3.4300e-003</b>	<b>3.6000e-003</b>	<b>137.9157</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	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
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	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
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	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
Manufacturing	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Refrigerated Warehouse-No Rail	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Unrefrigerated Warehouse-No Rail	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

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

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	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
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
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	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
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
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<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**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
Unmitigated	5.0207	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231

**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	0.5761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9900e-003	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
<b>Total</b>	<b>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>		<b>0.1231</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4397					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9900e-003	4.9000e-004	0.0539	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1155	0.1155	3.0000e-004		0.1231
<b>Total</b>	<b>5.0207</b>	<b>4.9000e-004</b>	<b>0.0539</b>	<b>0.0000</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>0.1155</b>	<b>0.1155</b>	<b>3.0000e-004</b>		<b>0.1231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**Moreno Valley Business Park - Phase II (Construction - Unmitigated)**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area is 9.98 acres

Construction Phase - Construction anticipated to begin August 2022 and end in July 2023

Off-road Equipment - Hours are based on an 8-hour workday

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction

Grading - This analysis conservatively assumes that the entire Project site (approximately 10 acres) can be disturbed per day

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24E	0.95	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	15.20	0.00
tblEnergyUse	T24NG	3.22	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	50.00	200.00

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

tblGrading	AcresOfGrading	35.00	100.00
tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	40.99	0.00
tblSolidWaste	SolidWasteGenerationRate	31.08	0.00
tblSolidWaste	SolidWasteGenerationRate	145.01	0.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	71.00	63.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

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

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	7,645,125.00	0.00
tblWater	IndoorWaterUseRate	35,674,937.50	0.00



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

**2.0 Emissions Summary**

**2.1 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	0.1941	1.9164	1.2580	3.6300e-003	0.4091	0.0773	0.4863	0.1267	0.0718	0.1985	0.0000	323.6733	323.6733	0.0633	8.5400e-003	327.7983
2023	1.1895	2.2991	2.0185	5.6900e-003	0.1905	0.0929	0.2834	0.0513	0.0867	0.1380	0.0000	509.5452	509.5452	0.0863	0.0150	516.1715
<b>Maximum</b>	<b>1.1895</b>	<b>2.2991</b>	<b>2.0185</b>	<b>5.6900e-003</b>	<b>0.4091</b>	<b>0.0929</b>	<b>0.4863</b>	<b>0.1267</b>	<b>0.0867</b>	<b>0.1985</b>	<b>0.0000</b>	<b>509.5452</b>	<b>509.5452</b>	<b>0.0863</b>	<b>0.0150</b>	<b>516.1715</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	0.1941	1.9164	1.2580	3.6300e-003	0.2202	0.0773	0.2975	0.0658	0.0718	0.1376	0.0000	323.6730	323.6730	0.0633	8.5400e-003	327.7980
2023	1.1895	2.2991	2.0185	5.6900e-003	0.1905	0.0929	0.2834	0.0513	0.0867	0.1380	0.0000	509.5448	509.5448	0.0863	0.0150	516.1712
<b>Maximum</b>	<b>1.1895</b>	<b>2.2991</b>	<b>2.0185</b>	<b>5.6900e-003</b>	<b>0.2202</b>	<b>0.0929</b>	<b>0.2975</b>	<b>0.0658</b>	<b>0.0867</b>	<b>0.1380</b>	<b>0.0000</b>	<b>509.5448</b>	<b>509.5448</b>	<b>0.0863</b>	<b>0.0150</b>	<b>516.1712</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	31.50	0.00	24.54	34.25	0.00	18.11	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	8-1-2022	10-31-2022	1.2866	1.2866
2	11-1-2022	1-31-2023	1.1528	1.1528
3	2-1-2023	4-30-2023	1.0181	1.0181
4	5-1-2023	7-31-2023	2.0604	2.0604
		Highest	2.0604	2.0604

**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	0.9160	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140
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>0.9160</b>	<b>6.0000e-005</b>	<b>6.7300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0131</b>	<b>0.0131</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9160	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140
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>0.9160</b>	<b>6.0000e-005</b>	<b>6.7300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0131</b>	<b>0.0131</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</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	Site Preparation	Site Preparation	8/1/2022	8/12/2022	5	10	
2	Grading	Grading	8/13/2022	9/9/2022	5	20	
3	Building Construction	Building Construction	9/10/2022	7/28/2023	5	230	

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4	Architectural Coating	Architectural Coating	6/5/2023	7/28/2023	5	40
5	Paving	Paving	7/3/2023	7/28/2023	5	20

**Acres of Grading (Site Preparation Phase): 100**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 4.92**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 330,585; Non-Residential Outdoor: 110,195; Striped Parking Area: 12,867 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	3	8.00	212	0.43
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	183.00	63.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	37.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1434	0.0000	0.1434	0.0554	0.0000	0.0554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2521	0.1000	2.8000e-004		0.0108	0.0108		9.9300e-003	9.9300e-003	0.0000	25.0258	25.0258	8.0900e-003	0.0000	25.2281
<b>Total</b>	<b>0.0224</b>	<b>0.2521</b>	<b>0.1000</b>	<b>2.8000e-004</b>	<b>0.1434</b>	<b>0.0108</b>	<b>0.1542</b>	<b>0.0554</b>	<b>9.9300e-003</b>	<b>0.0653</b>	<b>0.0000</b>	<b>25.0258</b>	<b>25.0258</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.2281</b>

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

**3.2 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.7000e-004	2.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.2627	0.2627	0.0000	4.0000e-005	0.2744
Worker	3.1000e-004	2.4000e-004	3.0700e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7822	0.7822	2.0000e-005	2.0000e-005	0.7892
<b>Total</b>	<b>3.3000e-004</b>	<b>9.1000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.0000e-005</b>	<b>1.0900e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0449</b>	<b>1.0449</b>	<b>2.0000e-005</b>	<b>6.0000e-005</b>	<b>1.0635</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	tons/yr										MT/yr					
Fugitive Dust					0.0559	0.0000	0.0559	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2521	0.1000	2.8000e-004		0.0108	0.0108		9.9300e-003	9.9300e-003	0.0000	25.0257	25.0257	8.0900e-003	0.0000	25.2281
<b>Total</b>	<b>0.0224</b>	<b>0.2521</b>	<b>0.1000</b>	<b>2.8000e-004</b>	<b>0.0559</b>	<b>0.0108</b>	<b>0.0667</b>	<b>0.0216</b>	<b>9.9300e-003</b>	<b>0.0315</b>	<b>0.0000</b>	<b>25.0257</b>	<b>25.0257</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.2281</b>

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**3.2 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.7000e-004	2.2000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.2627	0.2627	0.0000	4.0000e-005	0.2744
Worker	3.1000e-004	2.4000e-004	3.0700e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7822	0.7822	2.0000e-005	2.0000e-005	0.7892
<b>Total</b>	<b>3.3000e-004</b>	<b>9.1000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.0000e-005</b>	<b>1.0900e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0449</b>	<b>1.0449</b>	<b>2.0000e-005</b>	<b>6.0000e-005</b>	<b>1.0635</b>

**3.3 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					0.1663	0.0000	0.1663	0.0446	0.0000	0.0446	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3385	0.1550	4.4000e-004		0.0135	0.0135		0.0124	0.0124	0.0000	38.5139	38.5139	0.0125	0.0000	38.8253
<b>Total</b>	<b>0.0293</b>	<b>0.3385</b>	<b>0.1550</b>	<b>4.4000e-004</b>	<b>0.1663</b>	<b>0.0135</b>	<b>0.1798</b>	<b>0.0446</b>	<b>0.0124</b>	<b>0.0570</b>	<b>0.0000</b>	<b>38.5139</b>	<b>38.5139</b>	<b>0.0125</b>	<b>0.0000</b>	<b>38.8253</b>

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

**3.3 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	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	8.0000e-005	2.2200e-003	7.5000e-004	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	0.8756	0.8756	1.0000e-005	1.3000e-004	0.9145
Worker	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
<b>Total</b>	<b>6.0000e-004</b>	<b>2.6300e-003</b>	<b>5.8600e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>5.3000e-004</b>	<b>4.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.1793</b>	<b>2.1793</b>	<b>4.0000e-005</b>	<b>1.7000e-004</b>	<b>2.2298</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	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0174	0.0000	0.0174	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3385	0.1550	4.4000e-004		0.0135	0.0135		0.0124	0.0124	0.0000	38.5138	38.5138	0.0125	0.0000	38.8252
<b>Total</b>	<b>0.0293</b>	<b>0.3385</b>	<b>0.1550</b>	<b>4.4000e-004</b>	<b>0.0649</b>	<b>0.0135</b>	<b>0.0784</b>	<b>0.0174</b>	<b>0.0124</b>	<b>0.0298</b>	<b>0.0000</b>	<b>38.5138</b>	<b>38.5138</b>	<b>0.0125</b>	<b>0.0000</b>	<b>38.8252</b>



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

**3.3 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	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	8.0000e-005	2.2200e-003	7.5000e-004	1.0000e-005	3.2000e-004	3.0000e-005	3.5000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	0.8756	0.8756	1.0000e-005	1.3000e-004	0.9145
Worker	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
<b>Total</b>	<b>6.0000e-004</b>	<b>2.6300e-003</b>	<b>5.8600e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>5.3000e-004</b>	<b>4.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.1793</b>	<b>2.1793</b>	<b>4.0000e-005</b>	<b>1.7000e-004</b>	<b>2.2298</b>

**3.4 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	0.1119	1.1906	0.7068	1.7200e-003		0.0510	0.0510		0.0476	0.0476	0.0000	149.1605	149.1605	0.0405	0.0000	150.1722
<b>Total</b>	<b>0.1119</b>	<b>1.1906</b>	<b>0.7068</b>	<b>1.7200e-003</b>		<b>0.0510</b>	<b>0.0510</b>		<b>0.0476</b>	<b>0.0476</b>	<b>0.0000</b>	<b>149.1605</b>	<b>149.1605</b>	<b>0.0405</b>	<b>0.0000</b>	<b>150.1722</b>

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**3.4 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	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	4.0000e-003	0.1119	0.0377	4.6000e-004	0.0159	1.5400e-003	0.0175	4.5900e-003	1.4700e-003	6.0600e-003	0.0000	44.1296	44.1296	4.6000e-004	6.5500e-003	46.0926
Worker	0.0256	0.0199	0.2494	6.9000e-004	0.0805	4.1000e-004	0.0809	0.0214	3.8000e-004	0.0217	0.0000	63.6194	63.6194	1.7000e-003	1.7600e-003	64.1867
<b>Total</b>	<b>0.0296</b>	<b>0.1318</b>	<b>0.2870</b>	<b>1.1500e-003</b>	<b>0.0964</b>	<b>1.9500e-003</b>	<b>0.0983</b>	<b>0.0260</b>	<b>1.8500e-003</b>	<b>0.0278</b>	<b>0.0000</b>	<b>107.7490</b>	<b>107.7490</b>	<b>2.1600e-003</b>	<b>8.3100e-003</b>	<b>110.2793</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	tons/yr										MT/yr					
Off-Road	0.1119	1.1906	0.7068	1.7200e-003		0.0510	0.0510		0.0476	0.0476	0.0000	149.1603	149.1603	0.0405	0.0000	150.1720
<b>Total</b>	<b>0.1119</b>	<b>1.1906</b>	<b>0.7068</b>	<b>1.7200e-003</b>		<b>0.0510</b>	<b>0.0510</b>		<b>0.0476</b>	<b>0.0476</b>	<b>0.0000</b>	<b>149.1603</b>	<b>149.1603</b>	<b>0.0405</b>	<b>0.0000</b>	<b>150.1720</b>

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**3.4 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	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	4.0000e-003	0.1119	0.0377	4.6000e-004	0.0159	1.5400e-003	0.0175	4.5900e-003	1.4700e-003	6.0600e-003	0.0000	44.1296	44.1296	4.6000e-004	6.5500e-003	46.0926
Worker	0.0256	0.0199	0.2494	6.9000e-004	0.0805	4.1000e-004	0.0809	0.0214	3.8000e-004	0.0217	0.0000	63.6194	63.6194	1.7000e-003	1.7600e-003	64.1867
<b>Total</b>	<b>0.0296</b>	<b>0.1318</b>	<b>0.2870</b>	<b>1.1500e-003</b>	<b>0.0964</b>	<b>1.9500e-003</b>	<b>0.0983</b>	<b>0.0260</b>	<b>1.8500e-003</b>	<b>0.0278</b>	<b>0.0000</b>	<b>107.7490</b>	<b>107.7490</b>	<b>2.1600e-003</b>	<b>8.3100e-003</b>	<b>110.2793</b>

**3.4 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	0.1914	1.9653	1.3010	3.2200e-003		0.0838	0.0838		0.0782	0.0782	0.0000	279.5199	279.5199	0.0755	0.0000	281.4082
<b>Total</b>	<b>0.1914</b>	<b>1.9653</b>	<b>1.3010</b>	<b>3.2200e-003</b>		<b>0.0838</b>	<b>0.0838</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>279.5199</b>	<b>279.5199</b>	<b>0.0755</b>	<b>0.0000</b>	<b>281.4082</b>

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**3.4 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	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	5.1200e-003	0.1620	0.0645	8.3000e-004	0.0299	1.3500e-003	0.0312	8.6100e-003	1.2900e-003	9.9000e-003	0.0000	79.4984	79.4984	8.0000e-004	0.0118	83.0215
Worker	0.0446	0.0330	0.4309	1.2500e-003	0.1509	7.2000e-004	0.1516	0.0401	6.6000e-004	0.0407	0.0000	116.1590	116.1590	2.8600e-003	3.0500e-003	117.1384
<b>Total</b>	<b>0.0497</b>	<b>0.1950</b>	<b>0.4954</b>	<b>2.0800e-003</b>	<b>0.1807</b>	<b>2.0700e-003</b>	<b>0.1828</b>	<b>0.0487</b>	<b>1.9500e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>195.6574</b>	<b>195.6574</b>	<b>3.6600e-003</b>	<b>0.0148</b>	<b>200.1598</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	tons/yr										MT/yr					
Off-Road	0.1914	1.9653	1.3010	3.2200e-003		0.0838	0.0838		0.0782	0.0782	0.0000	279.5196	279.5196	0.0755	0.0000	281.4079
<b>Total</b>	<b>0.1914</b>	<b>1.9653</b>	<b>1.3010</b>	<b>3.2200e-003</b>		<b>0.0838</b>	<b>0.0838</b>		<b>0.0782</b>	<b>0.0782</b>	<b>0.0000</b>	<b>279.5196</b>	<b>279.5196</b>	<b>0.0755</b>	<b>0.0000</b>	<b>281.4079</b>

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**3.4 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	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	5.1200e-003	0.1620	0.0645	8.3000e-004	0.0299	1.3500e-003	0.0312	8.6100e-003	1.2900e-003	9.9000e-003	0.0000	79.4984	79.4984	8.0000e-004	0.0118	83.0215
Worker	0.0446	0.0330	0.4309	1.2500e-003	0.1509	7.2000e-004	0.1516	0.0401	6.6000e-004	0.0407	0.0000	116.1590	116.1590	2.8600e-003	3.0500e-003	117.1384
<b>Total</b>	<b>0.0497</b>	<b>0.1950</b>	<b>0.4954</b>	<b>2.0800e-003</b>	<b>0.1807</b>	<b>2.0700e-003</b>	<b>0.1828</b>	<b>0.0487</b>	<b>1.9500e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>195.6574</b>	<b>195.6574</b>	<b>3.6600e-003</b>	<b>0.0148</b>	<b>200.1598</b>

**3.5 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	0.9236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1100e-003	0.0348	0.0483	8.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	6.8087	6.8087	4.1000e-004	0.0000	6.8189
<b>Total</b>	<b>0.9288</b>	<b>0.0348</b>	<b>0.0483</b>	<b>8.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>6.8087</b>	<b>6.8087</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.8189</b>

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**3.5 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	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	2.4000e-003	1.7800e-003	0.0232	7.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	6.2629	6.2629	1.5000e-004	1.6000e-004	6.3157
<b>Total</b>	<b>2.4000e-003</b>	<b>1.7800e-003</b>	<b>0.0232</b>	<b>7.0000e-005</b>	<b>8.1300e-003</b>	<b>4.0000e-005</b>	<b>8.1700e-003</b>	<b>2.1600e-003</b>	<b>4.0000e-005</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.2629</b>	<b>6.2629</b>	<b>1.5000e-004</b>	<b>1.6000e-004</b>	<b>6.3157</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	tons/yr										MT/yr					
Archit. Coating	0.9236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1100e-003	0.0348	0.0483	8.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	6.8087	6.8087	4.1000e-004	0.0000	6.8189
<b>Total</b>	<b>0.9288</b>	<b>0.0348</b>	<b>0.0483</b>	<b>8.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>6.8087</b>	<b>6.8087</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.8189</b>

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**3.5 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	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	2.4000e-003	1.7800e-003	0.0232	7.0000e-005	8.1300e-003	4.0000e-005	8.1700e-003	2.1600e-003	4.0000e-005	2.2000e-003	0.0000	6.2629	6.2629	1.5000e-004	1.6000e-004	6.3157
<b>Total</b>	<b>2.4000e-003</b>	<b>1.7800e-003</b>	<b>0.0232</b>	<b>7.0000e-005</b>	<b>8.1300e-003</b>	<b>4.0000e-005</b>	<b>8.1700e-003</b>	<b>2.1600e-003</b>	<b>4.0000e-005</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.2629</b>	<b>6.2629</b>	<b>1.5000e-004</b>	<b>1.6000e-004</b>	<b>6.3157</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	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	6.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0168</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0269</b>	<b>20.0269</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802
<b>Total</b>	<b>4.9000e-004</b>	<b>3.6000e-004</b>	<b>4.7100e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2695</b>	<b>1.2695</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2802</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	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	6.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0168</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0268</b>	<b>20.0268</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802
<b>Total</b>	<b>4.9000e-004</b>	<b>3.6000e-004</b>	<b>4.7100e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2695</b>	<b>1.2695</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2802</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	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
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	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
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**







Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9160	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140
Unmitigated	0.9160	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140

**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	0.1051					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.2000e-004	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140
<b>Total</b>	<b>0.9160</b>	<b>6.0000e-005</b>	<b>6.7300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0131</b>	<b>0.0131</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>



Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1051					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.2000e-004	6.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0131	0.0131	3.0000e-005	0.0000	0.0140
<b>Total</b>	<b>0.9160</b>	<b>6.0000e-005</b>	<b>6.7300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0131</b>	<b>0.0131</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0140</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	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			
Manufacturing	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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**

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Category/Year

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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>

Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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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Moreno Valley Business Park - Phase II (Construction - Unmitigated) - Riverside-South Coast County, Annual

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations)**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	8/12/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.44
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.12
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.22
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00



Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.12	0.15
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	2.12	0.06
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	2.12	1.69
tblVehicleTrips	WD_TR	0.00	0.54

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Energy	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
Mobile	0.2777	2.2908	3.0002	0.0173	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,797.4199	1,797.4199	0.0338	0.1702	1,848.9762
<b>Total</b>	<b>1.0674</b>	<b>2.7502</b>	<b>3.3928</b>	<b>0.0200</b>	<b>1.1389</b>	<b>0.0594</b>	<b>1.1983</b>	<b>0.3145</b>	<b>0.0582</b>	<b>0.3727</b>		<b>2,348.6652</b>	<b>2,348.6652</b>	<b>0.0444</b>	<b>0.1803</b>	<b>2,403.4982</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	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Energy	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
Mobile	0.2777	2.2908	3.0002	0.0173	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,797.4199	1,797.4199	0.0338	0.1702	1,848.9762
<b>Total</b>	<b>1.0674</b>	<b>2.7502</b>	<b>3.3928</b>	<b>0.0200</b>	<b>1.1389</b>	<b>0.0594</b>	<b>1.1983</b>	<b>0.3145</b>	<b>0.0582</b>	<b>0.3727</b>		<b>2,348.6652</b>	<b>2,348.6652</b>	<b>0.0444</b>	<b>0.1803</b>	<b>2,403.4982</b>

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	7/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2777	2.2908	3.0002	0.0173	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,797.4199	1,797.4199	0.0338	0.1702	1,848.9762
Unmitigated	0.2777	2.2908	3.0002	0.0173	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,797.4199	1,797.4199	0.0338	0.1702	1,848.9762

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	56.00	4.87	1.95	175,605	175,605
User Defined Industrial	18.00	1.57	0.62	191,771	191,771
<b>Total</b>	<b>74.00</b>	<b>6.44</b>	<b>2.57</b>	<b>367,377</b>	<b>367,377</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
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.435800	0.119800	0.222200	0.222200	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
NaturalGas Unmitigated	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066



Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	4685.46	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
User Defined Industrial	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>0.0505</b>	<b>0.4594</b>	<b>0.3859</b>	<b>2.7600e-003</b>		<b>0.0349</b>	<b>0.0349</b>		<b>0.0349</b>	<b>0.0349</b>		<b>551.2309</b>	<b>551.2309</b>	<b>0.0106</b>	<b>0.0101</b>	<b>554.5066</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	4.68546	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
User Defined Industrial	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>0.0505</b>	<b>0.4594</b>	<b>0.3859</b>	<b>2.7600e-003</b>		<b>0.0349</b>	<b>0.0349</b>		<b>0.0349</b>	<b>0.0349</b>		<b>551.2309</b>	<b>551.2309</b>	<b>0.0106</b>	<b>0.0101</b>	<b>554.5066</b>

**6.0 Area Detail**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Unmitigated	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154

**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	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
<b>Total</b>	<b>0.7392</b>	<b>6.0000e-005</b>	<b>6.7500e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0154</b>

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
<b>Total</b>	<b>0.7392</b>	<b>6.0000e-005</b>	<b>6.7500e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0154</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations)**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	8/12/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.44
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.12
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.22
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.12	0.15
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	2.12	0.06
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	2.12	1.69
tblVehicleTrips	WD_TR	0.00	0.54

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Energy	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
Mobile	0.2486	2.4117	2.6993	0.0169	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,756.8719	1,756.8719	0.0341	0.1711	1,808.7246
<b>Total</b>	<b>1.0383</b>	<b>2.8711</b>	<b>3.0919</b>	<b>0.0196</b>	<b>1.1389</b>	<b>0.0594</b>	<b>1.1983</b>	<b>0.3145</b>	<b>0.0583</b>	<b>0.3727</b>		<b>2,308.1172</b>	<b>2,308.1172</b>	<b>0.0447</b>	<b>0.1813</b>	<b>2,363.2466</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	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Energy	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
Mobile	0.2486	2.4117	2.6993	0.0169	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,756.8719	1,756.8719	0.0341	0.1711	1,808.7246
<b>Total</b>	<b>1.0383</b>	<b>2.8711</b>	<b>3.0919</b>	<b>0.0196</b>	<b>1.1389</b>	<b>0.0594</b>	<b>1.1983</b>	<b>0.3145</b>	<b>0.0583</b>	<b>0.3727</b>		<b>2,308.1172</b>	<b>2,308.1172</b>	<b>0.0447</b>	<b>0.1813</b>	<b>2,363.2466</b>

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	7/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2486	2.4117	2.6993	0.0169	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,756.8719	1,756.8719	0.0341	0.1711	1,808.7246
Unmitigated	0.2486	2.4117	2.6993	0.0169	1.1389	0.0245	1.1634	0.3145	0.0233	0.3378		1,756.8719	1,756.8719	0.0341	0.1711	1,808.7246

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	56.00	4.87	1.95	175,605	175,605
User Defined Industrial	18.00	1.57	0.62	191,771	191,771
<b>Total</b>	<b>74.00</b>	<b>6.44</b>	<b>2.57</b>	<b>367,377</b>	<b>367,377</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
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.435800	0.119800	0.222200	0.222200	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
NaturalGas Unmitigated	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	4685.46	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
User Defined Industrial	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>0.0505</b>	<b>0.4594</b>	<b>0.3859</b>	<b>2.7600e-003</b>		<b>0.0349</b>	<b>0.0349</b>		<b>0.0349</b>	<b>0.0349</b>		<b>551.2309</b>	<b>551.2309</b>	<b>0.0106</b>	<b>0.0101</b>	<b>554.5066</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	4.68546	0.0505	0.4594	0.3859	2.7600e-003		0.0349	0.0349		0.0349	0.0349		551.2309	551.2309	0.0106	0.0101	554.5066
User Defined Industrial	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>0.0505</b>	<b>0.4594</b>	<b>0.3859</b>	<b>2.7600e-003</b>		<b>0.0349</b>	<b>0.0349</b>		<b>0.0349</b>	<b>0.0349</b>		<b>551.2309</b>	<b>551.2309</b>	<b>0.0106</b>	<b>0.0101</b>	<b>554.5066</b>

**6.0 Area Detail**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
Unmitigated	0.7392	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154

**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	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
<b>Total</b>	<b>0.7392</b>	<b>6.0000e-005</b>	<b>6.7500e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0154</b>



Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0154
<b>Total</b>	<b>0.7392</b>	<b>6.0000e-005</b>	<b>6.7500e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0154</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Annual

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

**Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations)**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	8/12/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00

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

tblFleetMix	HHD	0.02	0.22
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.44
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.12
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.22
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Annual

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.12	0.15
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	2.12	0.06
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	2.12	1.69
tblVehicleTrips	WD_TR	0.00	0.54

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

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

Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Annual

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

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1349	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003
Energy	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	324.8461	324.8461	0.0215	4.0600e-003	326.5935
Mobile	0.0334	0.3233	0.3692	2.2500e-003	0.1493	3.2500e-003	0.1526	0.0413	3.1000e-003	0.0444	0.0000	213.0634	213.0634	4.1200e-003	0.0207	219.3274
Waste						0.0000	0.0000		0.0000	0.0000	6.3090	0.0000	6.3090	0.3729	0.0000	15.6302
Water						0.0000	0.0000		0.0000	0.0000	2.4255	17.6543	20.0797	0.2506	6.0600e-003	28.1516
<b>Total</b>	<b>0.1775</b>	<b>0.4071</b>	<b>0.4405</b>	<b>2.7500e-003</b>	<b>0.1493</b>	<b>9.6200e-003</b>	<b>0.1590</b>	<b>0.0413</b>	<b>9.4700e-003</b>	<b>0.0508</b>	<b>8.7344</b>	<b>555.5654</b>	<b>564.2998</b>	<b>0.6490</b>	<b>0.0308</b>	<b>589.7043</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1349	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003
Energy	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	324.8461	324.8461	0.0215	4.0600e-003	326.5935
Mobile	0.0334	0.3233	0.3692	2.2500e-003	0.1493	3.2500e-003	0.1526	0.0413	3.1000e-003	0.0444	0.0000	213.0634	213.0634	4.1200e-003	0.0207	219.3274
Waste						0.0000	0.0000		0.0000	0.0000	6.3090	0.0000	6.3090	0.3729	0.0000	15.6302
Water						0.0000	0.0000		0.0000	0.0000	2.4255	17.6543	20.0797	0.2506	6.0600e-003	28.1516
<b>Total</b>	<b>0.1775</b>	<b>0.4071</b>	<b>0.4405</b>	<b>2.7500e-003</b>	<b>0.1493</b>	<b>9.6200e-003</b>	<b>0.1590</b>	<b>0.0413</b>	<b>9.4700e-003</b>	<b>0.0508</b>	<b>8.7344</b>	<b>555.5654</b>	<b>564.2998</b>	<b>0.6490</b>	<b>0.0308</b>	<b>589.7043</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	8/1/2022	7/31/2022	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 Applied**

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



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

**3.2 Demolition - 2022**

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

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive 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	0.0334	0.3233	0.3692	2.2500e-003	0.1493	3.2500e-003	0.1526	0.0413	3.1000e-003	0.0444	0.0000	213.0634	213.0634	4.1200e-003	0.0207	219.3274
Unmitigated	0.0334	0.3233	0.3692	2.2500e-003	0.1493	3.2500e-003	0.1526	0.0413	3.1000e-003	0.0444	0.0000	213.0634	213.0634	4.1200e-003	0.0207	219.3274

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	56.00	4.87	1.95	175,605	175,605
User Defined Industrial	18.00	1.57	0.62	191,771	191,771
<b>Total</b>	<b>74.00</b>	<b>6.44</b>	<b>2.57</b>	<b>367,377</b>	<b>367,377</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
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

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User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.435800	0.119800	0.222200	0.222200	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	233.5837	233.5837	0.0197	2.3900e-003	234.7887
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	233.5837	233.5837	0.0197	2.3900e-003	234.7887
NaturalGas Mitigated	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2625	91.2625	1.7500e-003	1.6700e-003	91.8048
NaturalGas Unmitigated	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2625	91.2625	1.7500e-003	1.6700e-003	91.8048

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Rail	1.71019e+006	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2625	91.2625	1.7500e-003	1.6700e-003	91.8048
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.2200e-003</b>	<b>0.0838</b>	<b>0.0704</b>	<b>5.0000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>91.2625</b>	<b>91.2625</b>	<b>1.7500e-003</b>	<b>1.6700e-003</b>	<b>91.8048</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Rail	1.71019e+006	9.2200e-003	0.0838	0.0704	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2625	91.2625	1.7500e-003	1.6700e-003	91.8048
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.2200e-003</b>	<b>0.0838</b>	<b>0.0704</b>	<b>5.0000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>91.2625</b>	<b>91.2625</b>	<b>1.7500e-003</b>	<b>1.6700e-003</b>	<b>91.8048</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			
Refrigerated Warehouse-No Rail	1.31711e+006	233.5837	0.0197	2.3900e-003	234.7887
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>233.5837</b>	<b>0.0197</b>	<b>2.3900e-003</b>	<b>234.7887</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Rail	1.31711e+006	233.5837	0.0197	2.3900e-003	234.7887
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>233.5837</b>	<b>0.0197</b>	<b>2.3900e-003</b>	<b>234.7887</b>

**6.0 Area Detail**

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**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	0.1349	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003
Unmitigated	0.1349	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003
<b>Total</b>	<b>0.1349</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7500e-003</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	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6400e-003	1.6400e-003	0.0000	0.0000	1.7500e-003
<b>Total</b>	<b>0.1349</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.0797	0.2506	6.0600e-003	28.1516
Unmitigated	20.0797	0.2506	6.0600e-003	28.1516

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No Rail	7.64513 / 0	20.0797	0.2506	6.0600e-003	28.1516
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>20.0797</b>	<b>0.2506</b>	<b>6.0600e-003</b>	<b>28.1516</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No Rail	7.64513 / 0	20.0797	0.2506	6.0600e-003	28.1516
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>20.0797</b>	<b>0.2506</b>	<b>6.0600e-003</b>	<b>28.1516</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.3090	0.3729	0.0000	15.6302
Unmitigated	6.3090	0.3729	0.0000	15.6302

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3090</b>	<b>0.3729</b>	<b>0.0000</b>	<b>15.6302</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	31.08	6.3090	0.3729	0.0000	15.6302
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3090</b>	<b>0.3729</b>	<b>0.0000</b>	<b>15.6302</b>

**9.0 Operational Offroad**

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Moreno Valley Business Park - Phase II (High-Cube Cold Storage Operations) - Riverside-South Coast County, Annual

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

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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Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**Moreno Valley Business Park - Phase II (Manufacturing Operations)**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area (without Warehouse and High-Cube Cold Storage use) is 5.68 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.10
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.25
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	6.42	1.34
tblVehicleTrips	ST_TR	0.00	0.15
tblVehicleTrips	SU_TR	5.09	0.89
tblVehicleTrips	SU_TR	0.00	0.10
tblVehicleTrips	WD_TR	3.93	4.30
tblVehicleTrips	WD_TR	0.00	0.48

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Energy	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
Mobile	0.5788	2.6775	6.4449	0.0267	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,784.5719	2,784.5719	0.0765	0.2650	2,865.4640
Offroad	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>1.5551</b>	<b>4.0010</b>	<b>7.4734</b>	<b>0.0316</b>	<b>1.8838</b>	<b>0.0945</b>	<b>1.9784</b>	<b>0.5087</b>	<b>0.0898</b>	<b>0.5985</b>	<b>0.0000</b>	<b>3,435.7048</b>	<b>3,435.7048</b>	<b>0.1825</b>	<b>0.2714</b>	<b>3,521.1280</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

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	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Energy	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
Mobile	0.5788	2.6775	6.4449	0.0267	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,784.5719	2,784.5719	0.0765	0.2650	2,865.4640
Offroad	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>1.5551</b>	<b>4.0010</b>	<b>7.4734</b>	<b>0.0316</b>	<b>1.8838</b>	<b>0.0945</b>	<b>1.9784</b>	<b>0.5087</b>	<b>0.0898</b>	<b>0.5985</b>	<b>0.0000</b>	<b>3,435.7048</b>	<b>3,435.7048</b>	<b>0.1825</b>	<b>0.2714</b>	<b>3,521.1280</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
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	8/1/2022	7/31/2022	5	0	

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

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





Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

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

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5788	2.6775	6.4449	0.0267	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,784.5719	2,784.5719	0.0765	0.2650	2,865.4640
Unmitigated	0.5788	2.6775	6.4449	0.0267	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,784.5719	2,784.5719	0.0765	0.2650	2,865.4640

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	142.00	44.27	29.41	495,765	495,765
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	16.00	4.99	3.32	183,685	183,685
<b>Total</b>	<b>158.00</b>	<b>49.26</b>	<b>32.73</b>	<b>679,450</b>	<b>679,450</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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.098100	0.026900	0.250000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
NaturalGas Unmitigated	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532



Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2928.3	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
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
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
User Defined Industrial	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>0.0316</b>	<b>0.2871</b>	<b>0.2412</b>	<b>1.7200e-003</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0218</b>	<b>0.0218</b>		<b>344.5060</b>	<b>344.5060</b>	<b>6.6000e-003</b>	<b>6.3200e-003</b>	<b>346.5532</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2.9283	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
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
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
User Defined Industrial	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>0.0316</b>	<b>0.2871</b>	<b>0.2412</b>	<b>1.7200e-003</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0218</b>	<b>0.0218</b>		<b>344.5060</b>	<b>344.5060</b>	<b>6.6000e-003</b>	<b>6.3200e-003</b>	<b>346.5532</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Unmitigated	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871

**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	0.1003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5300e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
<b>Total</b>	<b>0.8344</b>	<b>3.5000e-004</b>	<b>0.0381</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0817</b>	<b>0.0817</b>	<b>2.1000e-004</b>		<b>0.0871</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5300e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
<b>Total</b>	<b>0.8344</b>	<b>3.5000e-004</b>	<b>0.0381</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0817</b>	<b>0.0817</b>	<b>2.1000e-004</b>		<b>0.0871</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Summer

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

**UnMitigated/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
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>0.1103</b>	<b>1.0361</b>	<b>0.7492</b>	<b>3.1700e-003</b>		<b>0.0376</b>	<b>0.0376</b>		<b>0.0346</b>	<b>0.0346</b>	<b>0.0000</b>	<b>306.5451</b>	<b>306.5451</b>	<b>0.0991</b>		<b>309.0237</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**Moreno Valley Business Park - Phase II (Manufacturing Operations)**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area (without Warehouse and High-Cube Cold Storage use) is 5.68 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.10
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.25
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	6.42	1.34
tblVehicleTrips	ST_TR	0.00	0.15
tblVehicleTrips	SU_TR	5.09	0.89
tblVehicleTrips	SU_TR	0.00	0.10
tblVehicleTrips	WD_TR	3.93	4.30
tblVehicleTrips	WD_TR	0.00	0.48

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Energy	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
Mobile	0.5055	2.8289	5.6667	0.0256	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,678.3108	2,678.3108	0.0773	0.2665	2,759.6688
Offroad	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>1.4818</b>	<b>4.1524</b>	<b>6.6952</b>	<b>0.0305</b>	<b>1.8838</b>	<b>0.0945</b>	<b>1.9784</b>	<b>0.5087</b>	<b>0.0898</b>	<b>0.5985</b>	<b>0.0000</b>	<b>3,329.4436</b>	<b>3,329.4436</b>	<b>0.1832</b>	<b>0.2729</b>	<b>3,415.3327</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**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	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Energy	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
Mobile	0.5055	2.8289	5.6667	0.0256	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,678.3108	2,678.3108	0.0773	0.2665	2,759.6688
Offroad	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>1.4818</b>	<b>4.1524</b>	<b>6.6952</b>	<b>0.0305</b>	<b>1.8838</b>	<b>0.0945</b>	<b>1.9784</b>	<b>0.5087</b>	<b>0.0898</b>	<b>0.5985</b>	<b>0.0000</b>	<b>3,329.4436</b>	<b>3,329.4436</b>	<b>0.1832</b>	<b>0.2729</b>	<b>3,415.3327</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
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	8/1/2022	7/31/2022	5	0	

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

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





Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

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

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5055	2.8289	5.6667	0.0256	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,678.3108	2,678.3108	0.0773	0.2665	2,759.6688
Unmitigated	0.5055	2.8289	5.6667	0.0256	1.8838	0.0350	1.9188	0.5087	0.0333	0.5420		2,678.3108	2,678.3108	0.0773	0.2665	2,759.6688

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	142.00	44.27	29.41	495,765	495,765
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	16.00	4.99	3.32	183,685	183,685
<b>Total</b>	<b>158.00</b>	<b>49.26</b>	<b>32.73</b>	<b>679,450</b>	<b>679,450</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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.098100	0.026900	0.250000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
NaturalGas Unmitigated	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532



Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2928.3	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
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
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
User Defined Industrial	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>0.0316</b>	<b>0.2871</b>	<b>0.2412</b>	<b>1.7200e-003</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0218</b>	<b>0.0218</b>		<b>344.5060</b>	<b>344.5060</b>	<b>6.6000e-003</b>	<b>6.3200e-003</b>	<b>346.5532</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2.9283	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5060	344.5060	6.6000e-003	6.3200e-003	346.5532
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
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
User Defined Industrial	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>0.0316</b>	<b>0.2871</b>	<b>0.2412</b>	<b>1.7200e-003</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0218</b>	<b>0.0218</b>		<b>344.5060</b>	<b>344.5060</b>	<b>6.6000e-003</b>	<b>6.3200e-003</b>	<b>346.5532</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
Unmitigated	0.8344	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871

**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	0.1003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5300e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
<b>Total</b>	<b>0.8344</b>	<b>3.5000e-004</b>	<b>0.0381</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0817</b>	<b>0.0817</b>	<b>2.1000e-004</b>		<b>0.0871</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5300e-003	3.5000e-004	0.0381	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0817	0.0817	2.1000e-004		0.0871
<b>Total</b>	<b>0.8344</b>	<b>3.5000e-004</b>	<b>0.0381</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>0.0817</b>	<b>0.0817</b>	<b>2.1000e-004</b>		<b>0.0871</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**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
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Winter

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.1103	1.0361	0.7492	3.1700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	306.5451	306.5451	0.0991		309.0237
<b>Total</b>	<b>0.1103</b>	<b>1.0361</b>	<b>0.7492</b>	<b>3.1700e-003</b>		<b>0.0376</b>	<b>0.0376</b>		<b>0.0346</b>	<b>0.0346</b>	<b>0.0000</b>	<b>306.5451</b>	<b>306.5451</b>	<b>0.0991</b>		<b>309.0237</b>

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**Moreno Valley Business Park - Phase II (Manufacturing Operations)**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	33.06	1000sqft	0.76	33,060.00	0
User Defined Industrial	33.06	User Defined Unit	0.00	0.00	0
Parking Lot	134.00	Space	0.94	41,076.00	0
Other Asphalt Surfaces	173.37	1000sqft	3.98	173,366.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Total Project area (without Warehouse and High-Cube Cold Storage use) is 5.68 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.10
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.25
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00

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

tblLandUse	LandUseSquareFeet	53,600.00	41,076.00
tblLandUse	LotAcreage	1.21	0.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	6.42	1.34
tblVehicleTrips	ST_TR	0.00	0.15
tblVehicleTrips	SU_TR	5.09	0.89
tblVehicleTrips	SU_TR	0.00	0.10
tblVehicleTrips	WD_TR	3.93	4.30
tblVehicleTrips	WD_TR	0.00	0.48

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

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

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1521	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003
Energy	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	117.7479	117.7479	6.2200e-003	1.6700e-003	118.4000
Mobile	0.0734	0.4073	0.8408	3.7000e-003	0.2660	5.0100e-003	0.2710	0.0719	4.7700e-003	0.0767	0.0000	351.2712	351.2712	0.0101	0.0347	361.8663
Offroad	0.0201	0.1891	0.1367	5.8000e-004		6.8600e-003	6.8600e-003		6.3100e-003	6.3100e-003	0.0000	50.7519	50.7519	0.0164	0.0000	51.1623
Waste						0.0000	0.0000		0.0000	0.0000	8.3206	0.0000	8.3206	0.4917	0.0000	20.6139
Water						0.0000	0.0000		0.0000	0.0000	2.4255	17.6543	20.0797	0.2506	6.0600e-003	28.1516
<b>Total</b>	<b>0.2514</b>	<b>0.6488</b>	<b>1.0263</b>	<b>4.5900e-003</b>	<b>0.2660</b>	<b>0.0159</b>	<b>0.2819</b>	<b>0.0719</b>	<b>0.0151</b>	<b>0.0870</b>	<b>10.7461</b>	<b>537.4345</b>	<b>548.1806</b>	<b>0.7751</b>	<b>0.0424</b>	<b>580.2039</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1521	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003
Energy	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	117.7479	117.7479	6.2200e-003	1.6700e-003	118.4000
Mobile	0.0734	0.4073	0.8408	3.7000e-003	0.2660	5.0100e-003	0.2710	0.0719	4.7700e-003	0.0767	0.0000	351.2712	351.2712	0.0101	0.0347	361.8663
Offroad	0.0201	0.1891	0.1367	5.8000e-004		6.8600e-003	6.8600e-003		6.3100e-003	6.3100e-003	0.0000	50.7519	50.7519	0.0164	0.0000	51.1623
Waste						0.0000	0.0000		0.0000	0.0000	8.3206	0.0000	8.3206	0.4917	0.0000	20.6139
Water						0.0000	0.0000		0.0000	0.0000	2.4255	17.6543	20.0797	0.2506	6.0600e-003	28.1516
<b>Total</b>	<b>0.2514</b>	<b>0.6488</b>	<b>1.0263</b>	<b>4.5900e-003</b>	<b>0.2660</b>	<b>0.0159</b>	<b>0.2819</b>	<b>0.0719</b>	<b>0.0151</b>	<b>0.0870</b>	<b>10.7461</b>	<b>537.4345</b>	<b>548.1806</b>	<b>0.7751</b>	<b>0.0424</b>	<b>580.2039</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	8/1/2022	7/31/2022	5	0	

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

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

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

**Acres of Paving: 4.92**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



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

**3.2 Demolition - 2022**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0734	0.4073	0.8408	3.7000e-003	0.2660	5.0100e-003	0.2710	0.0719	4.7700e-003	0.0767	0.0000	351.2712	351.2712	0.0101	0.0347	361.8663
Unmitigated	0.0734	0.4073	0.8408	3.7000e-003	0.2660	5.0100e-003	0.2710	0.0719	4.7700e-003	0.0767	0.0000	351.2712	351.2712	0.0101	0.0347	361.8663

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	142.00	44.27	29.41	495,765	495,765
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	16.00	4.99	3.32	183,685	183,685
Total	158.00	49.26	32.73	679,450	679,450

**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
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.098100	0.026900	0.250000	0.625000	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	60.7110	60.7110	5.1200e-003	6.2000e-004	61.0242
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	60.7110	60.7110	5.1200e-003	6.2000e-004	61.0242
NaturalGas Mitigated	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	57.0368	57.0368	1.0900e-003	1.0500e-003	57.3758
NaturalGas Unmitigated	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	57.0368	57.0368	1.0900e-003	1.0500e-003	57.3758



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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	1.06883e+006	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	57.0368	57.0368	1.0900e-003	1.0500e-003	57.3758
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
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
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.7600e-003</b>	<b>0.0524</b>	<b>0.0440</b>	<b>3.1000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>57.0368</b>	<b>57.0368</b>	<b>1.0900e-003</b>	<b>1.0500e-003</b>	<b>57.3758</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	1.06883e+006	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	57.0368	57.0368	1.0900e-003	1.0500e-003	57.3758
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
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
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.7600e-003</b>	<b>0.0524</b>	<b>0.0440</b>	<b>3.1000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>57.0368</b>	<b>57.0368</b>	<b>1.0900e-003</b>	<b>1.0500e-003</b>	<b>57.3758</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	327955	58.1614	4.9100e-003	6.0000e-004	58.4614
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14376.6	2.5496	2.2000e-004	3.0000e-005	2.5628
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>60.7110</b>	<b>5.1300e-003</b>	<b>6.3000e-004</b>	<b>61.0242</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	327955	58.1614	4.9100e-003	6.0000e-004	58.4614
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	14376.6	2.5496	2.2000e-004	3.0000e-005	2.5628
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>60.7110</b>	<b>5.1300e-003</b>	<b>6.3000e-004</b>	<b>61.0242</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1521	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003
Unmitigated	0.1521	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003
<b>Total</b>	<b>0.1521</b>	<b>4.0000e-005</b>	<b>4.7700e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.2700e-003</b>	<b>9.2700e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.8800e-003</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2700e-003	9.2700e-003	2.0000e-005	0.0000	9.8800e-003
<b>Total</b>	<b>0.1521</b>	<b>4.0000e-005</b>	<b>4.7700e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.2700e-003</b>	<b>9.2700e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.8800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.0797	0.2506	6.0600e-003	28.1516
Unmitigated	20.0797	0.2506	6.0600e-003	28.1516

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	7.64513 / 0	20.0797	0.2506	6.0600e-003	28.1516
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>20.0797</b>	<b>0.2506</b>	<b>6.0600e-003</b>	<b>28.1516</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	7.64513 / 0	20.0797	0.2506	6.0600e-003	28.1516
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>20.0797</b>	<b>0.2506</b>	<b>6.0600e-003</b>	<b>28.1516</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**



Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.3206	0.4917	0.0000	20.6139
Unmitigated	8.3206	0.4917	0.0000	20.6139

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	40.99	8.3206	0.4917	0.0000	20.6139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.3206</b>	<b>0.4917</b>	<b>0.0000</b>	<b>20.6139</b>

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	40.99	8.3206	0.4917	0.0000	20.6139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.3206</b>	<b>0.4917</b>	<b>0.0000</b>	<b>20.6139</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

Moreno Valley Business Park - Phase II (Manufacturing Operations) - Riverside-South Coast County, Annual

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

**UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.0201	0.1891	0.1367	5.8000e-004		6.8600e-003	6.8600e-003		6.3100e-003	6.3100e-003	0.0000	50.7519	50.7519	0.0164	0.0000	51.1623
<b>Total</b>	<b>0.0201</b>	<b>0.1891</b>	<b>0.1367</b>	<b>5.8000e-004</b>		<b>6.8600e-003</b>	<b>6.8600e-003</b>		<b>6.3100e-003</b>	<b>6.3100e-003</b>	<b>0.0000</b>	<b>50.7519</b>	<b>50.7519</b>	<b>0.0164</b>	<b>0.0000</b>	<b>51.1623</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**Moreno Valley Business Park - Phase II (Warehousing Operations)**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
User Defined Industrial	154.27	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.13
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.04
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	0.10
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	1.74	1.11
tblVehicleTrips	WD_TR	0.00	0.61

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Energy	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
Mobile	0.9223	14.1926	10.2621	0.1000	4.8919	0.1772	5.0691	1.3511	0.1693	1.5204		10,553.8088	10,553.8088	0.1717	1.3657	10,965.0875
<b>Total</b>	<b>4.3808</b>	<b>14.2762</b>	<b>10.3635</b>	<b>0.1005</b>	<b>4.8919</b>	<b>0.1836</b>	<b>5.0755</b>	<b>1.3511</b>	<b>0.1757</b>	<b>1.5268</b>		<b>10,653.8224</b>	<b>10,653.8224</b>	<b>0.1738</b>	<b>1.3676</b>	<b>11,065.6995</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Energy	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
Mobile	0.9223	14.1926	10.2621	0.1000	4.8919	0.1772	5.0691	1.3511	0.1693	1.5204		10,553.8088	10,553.8088	0.1717	1.3657	10,965.0875
<b>Total</b>	<b>4.3808</b>	<b>14.2762</b>	<b>10.3635</b>	<b>0.1005</b>	<b>4.8919</b>	<b>0.1836</b>	<b>5.0755</b>	<b>1.3511</b>	<b>0.1757</b>	<b>1.5268</b>		<b>10,653.8224</b>	<b>10,653.8224</b>	<b>0.1738</b>	<b>1.3676</b>	<b>11,065.6995</b>



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	7/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9223	14.1926	10.2621	0.1000	4.8919	0.1772	5.0691	1.3511	0.1693	1.5204		10,553.8088	10,553.8088	0.1717	1.3657	10,965.0875
Unmitigated	0.9223	14.1926	10.2621	0.1000	4.8919	0.1772	5.0691	1.3511	0.1693	1.5204		10,553.8088	10,553.8088	0.1717	1.3657	10,965.0875

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	172.00	14.96	5.99	539,344	539,344
User Defined Industrial	94.00	8.18	3.27	1,001,375	1,001,375
<b>Total</b>	<b>265.99</b>	<b>23.14</b>	<b>9.26</b>	<b>1,540,719</b>	<b>1,540,719</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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.133500	0.036700	0.212800	0.617000	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
NaturalGas Unmitigated	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	849.542	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
User Defined Industrial	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>9.1600e-003</b>	<b>0.0833</b>	<b>0.0700</b>	<b>5.0000e-004</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>99.9461</b>	<b>99.9461</b>	<b>1.9200e-003</b>	<b>1.8300e-003</b>	<b>100.5400</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.849542	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
User Defined Industrial	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>9.1600e-003</b>	<b>0.0833</b>	<b>0.0700</b>	<b>5.0000e-004</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>99.9461</b>	<b>99.9461</b>	<b>1.9200e-003</b>	<b>1.8300e-003</b>	<b>100.5400</b>

**6.0 Area Detail**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Unmitigated	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720

**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	0.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9200e-003	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
<b>Total</b>	<b>3.4493</b>	<b>2.9000e-004</b>	<b>0.0315</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0675</b>	<b>0.0675</b>	<b>1.8000e-004</b>		<b>0.0720</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9200e-003	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
<b>Total</b>	<b>3.4493</b>	<b>2.9000e-004</b>	<b>0.0315</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0675</b>	<b>0.0675</b>	<b>1.8000e-004</b>		<b>0.0720</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**Moreno Valley Business Park - Phase II (Warehousing Operations)**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
User Defined Industrial	154.27	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.13
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.04
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	0.10
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	1.74	1.11
tblVehicleTrips	WD_TR	0.00	0.61

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Energy	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
Mobile	0.8252	14.9769	9.3729	0.0988	4.8919	0.1773	5.0692	1.3511	0.1694	1.5205		10,433.4795	10,433.4795	0.1722	1.3690	10,845.7398
<b>Total</b>	<b>4.2836</b>	<b>15.0605</b>	<b>9.4744</b>	<b>0.0993</b>	<b>4.8919</b>	<b>0.1837</b>	<b>5.0756</b>	<b>1.3511</b>	<b>0.1758</b>	<b>1.5269</b>		<b>10,533.4931</b>	<b>10,533.4931</b>	<b>0.1743</b>	<b>1.3708</b>	<b>10,946.3518</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Energy	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
Mobile	0.8252	14.9769	9.3729	0.0988	4.8919	0.1773	5.0692	1.3511	0.1694	1.5205		10,433.4795	10,433.4795	0.1722	1.3690	10,845.7398
<b>Total</b>	<b>4.2836</b>	<b>15.0605</b>	<b>9.4744</b>	<b>0.0993</b>	<b>4.8919</b>	<b>0.1837</b>	<b>5.0756</b>	<b>1.3511</b>	<b>0.1758</b>	<b>1.5269</b>		<b>10,533.4931</b>	<b>10,533.4931</b>	<b>0.1743</b>	<b>1.3708</b>	<b>10,946.3518</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	7/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**





Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8252	14.9769	9.3729	0.0988	4.8919	0.1773	5.0692	1.3511	0.1694	1.5205		10,433.47 95	10,433.47 95	0.1722	1.3690	10,845.73 98
Unmitigated	0.8252	14.9769	9.3729	0.0988	4.8919	0.1773	5.0692	1.3511	0.1694	1.5205		10,433.47 95	10,433.47 95	0.1722	1.3690	10,845.73 98

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	172.00	14.96	5.99	539,344	539,344
User Defined Industrial	94.00	8.18	3.27	1,001,375	1,001,375
<b>Total</b>	<b>265.99</b>	<b>23.14</b>	<b>9.26</b>	<b>1,540,719</b>	<b>1,540,719</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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.133500	0.036700	0.212800	0.617000	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
NaturalGas Unmitigated	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	849.542	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
User Defined Industrial	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>9.1600e-003</b>	<b>0.0833</b>	<b>0.0700</b>	<b>5.0000e-004</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>99.9461</b>	<b>99.9461</b>	<b>1.9200e-003</b>	<b>1.8300e-003</b>	<b>100.5400</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.849542	9.1600e-003	0.0833	0.0700	5.0000e-004		6.3300e-003	6.3300e-003		6.3300e-003	6.3300e-003		99.9461	99.9461	1.9200e-003	1.8300e-003	100.5400
User Defined Industrial	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>9.1600e-003</b>	<b>0.0833</b>	<b>0.0700</b>	<b>5.0000e-004</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>		<b>99.9461</b>	<b>99.9461</b>	<b>1.9200e-003</b>	<b>1.8300e-003</b>	<b>100.5400</b>

**6.0 Area Detail**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
Unmitigated	3.4493	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720

**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	0.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9200e-003	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
<b>Total</b>	<b>3.4493</b>	<b>2.9000e-004</b>	<b>0.0315</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0675</b>	<b>0.0675</b>	<b>1.8000e-004</b>		<b>0.0720</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9200e-003	2.9000e-004	0.0315	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0675	0.0675	1.8000e-004		0.0720
<b>Total</b>	<b>3.4493</b>	<b>2.9000e-004</b>	<b>0.0315</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0675</b>	<b>0.0675</b>	<b>1.8000e-004</b>		<b>0.0720</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**Moreno Valley Business Park - Phase II (Warehousing Operations)**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	154.27	1000sqft	3.54	154,270.00	0
User Defined Industrial	154.27	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	8/26/2022	7/31/2022
tblFleetMix	HHD	0.02	0.00



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.53	0.58
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.13
tblFleetMix	LHD2	7.3100e-003	0.00
tblFleetMix	LHD2	7.3100e-003	0.04
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	0.10
tblVehicleTrips	ST_TR	0.00	0.05
tblVehicleTrips	SU_TR	1.74	0.04
tblVehicleTrips	SU_TR	0.00	0.02
tblVehicleTrips	WD_TR	1.74	1.11
tblVehicleTrips	WD_TR	0.00	0.61

**2.0 Emissions Summary**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

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

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6293	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Energy	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	80.0203	80.0203	5.6700e-003	9.5000e-004	80.4461
Mobile	0.1114	1.9983	1.2757	0.0132	0.6417	0.0236	0.6652	0.1775	0.0225	0.2000	0.0000	1,261.9401	1,261.9401	0.0208	0.1652	1,311.6907
Waste						0.0000	0.0000		0.0000	0.0000	29.4357	0.0000	29.4357	1.7396	0.0000	72.9258
Water						0.0000	0.0000		0.0000	0.0000	11.3180	82.3812	93.6992	1.1694	0.0283	131.3655
<b>Total</b>	<b>0.7424</b>	<b>2.0135</b>	<b>1.2924</b>	<b>0.0133</b>	<b>0.6417</b>	<b>0.0247</b>	<b>0.6664</b>	<b>0.1775</b>	<b>0.0237</b>	<b>0.2012</b>	<b>40.7537</b>	<b>1,424.3492</b>	<b>1,465.1030</b>	<b>2.9355</b>	<b>0.1944</b>	<b>1,596.4361</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6293	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Energy	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	80.0203	80.0203	5.6700e-003	9.5000e-004	80.4461
Mobile	0.1114	1.9983	1.2757	0.0132	0.6417	0.0236	0.6652	0.1775	0.0225	0.2000	0.0000	1,261.940 1	1,261.940 1	0.0208	0.1652	1,311.690 7
Waste						0.0000	0.0000		0.0000	0.0000	29.4357	0.0000	29.4357	1.7396	0.0000	72.9258
Water						0.0000	0.0000		0.0000	0.0000	11.3180	82.3812	93.6992	1.1694	0.0283	131.3655
<b>Total</b>	<b>0.7424</b>	<b>2.0135</b>	<b>1.2924</b>	<b>0.0133</b>	<b>0.6417</b>	<b>0.0247</b>	<b>0.6664</b>	<b>0.1775</b>	<b>0.0237</b>	<b>0.2012</b>	<b>40.7537</b>	<b>1,424.349 2</b>	<b>1,465.103 0</b>	<b>2.9355</b>	<b>0.1944</b>	<b>1,596.436 1</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	8/1/2022	7/31/2022	5	0	

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

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

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

**3.1 Mitigation Measures Construction**



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

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

**Mitigated Construction Off-Site**

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



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1114	1.9983	1.2757	0.0132	0.6417	0.0236	0.6652	0.1775	0.0225	0.2000	0.0000	1,261.940 1	1,261.940 1	0.0208	0.1652	1,311.690 7
Unmitigated	0.1114	1.9983	1.2757	0.0132	0.6417	0.0236	0.6652	0.1775	0.0225	0.2000	0.0000	1,261.940 1	1,261.940 1	0.0208	0.1652	1,311.690 7

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	172.00	14.96	5.99	539,344	539,344
User Defined Industrial	94.00	8.18	3.27	1,001,375	1,001,375
<b>Total</b>	<b>265.99</b>	<b>23.14</b>	<b>9.26</b>	<b>1,540,719</b>	<b>1,540,719</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
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.576000	0.060300	0.185900	0.151900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025900	0.000000	0.000000

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.133500	0.036700	0.212800	0.617000	0.000000	0.000000	0.000000	0.000000	0.000000
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	63.4731	63.4731	5.3600e-003	6.5000e-004	63.8006
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	63.4731	63.4731	5.3600e-003	6.5000e-004	63.8006
Natural Gas Mitigated	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5472	16.5472	3.2000e-004	3.0000e-004	16.6455
Natural Gas Unmitigated	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5472	16.5472	3.2000e-004	3.0000e-004	16.6455

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	310083	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5472	16.5472	3.2000e-004	3.0000e-004	16.6455
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6700e-003</b>	<b>0.0152</b>	<b>0.0128</b>	<b>9.0000e-005</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>16.5472</b>	<b>16.5472</b>	<b>3.2000e-004</b>	<b>3.0000e-004</b>	<b>16.6455</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	310083	1.6700e-003	0.0152	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5472	16.5472	3.2000e-004	3.0000e-004	16.6455
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6700e-003</b>	<b>0.0152</b>	<b>0.0128</b>	<b>9.0000e-005</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>16.5472</b>	<b>16.5472</b>	<b>3.2000e-004</b>	<b>3.0000e-004</b>	<b>16.6455</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	357906	63.4731	5.3600e-003	6.5000e-004	63.8006
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>63.4731</b>	<b>5.3600e-003</b>	<b>6.5000e-004</b>	<b>63.8006</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	357906	63.4731	5.3600e-003	6.5000e-004	63.8006
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>63.4731</b>	<b>5.3600e-003</b>	<b>6.5000e-004</b>	<b>63.8006</b>

**6.0 Area Detail**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Mitigated	0.6293	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Unmitigated	0.6293	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
<b>Total</b>	<b>0.6293</b>	<b>4.0000e-005</b>	<b>3.9400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.6600e-003</b>	<b>7.6600e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.1600e-003</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
<b>Total</b>	<b>0.6293</b>	<b>4.0000e-005</b>	<b>3.9400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>7.6600e-003</b>	<b>7.6600e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>8.1600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	93.6992	1.1694	0.0283	131.3655
Unmitigated	93.6992	1.1694	0.0283	131.3655

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	35.6749 / 0	93.6992	1.1694	0.0283	131.3655
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>93.6992</b>	<b>1.1694</b>	<b>0.0283</b>	<b>131.3655</b>

Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	35.6749 / 0	93.6992	1.1694	0.0283	131.3655
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>93.6992</b>	<b>1.1694</b>	<b>0.0283</b>	<b>131.3655</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.4357	1.7396	0.0000	72.9258
Unmitigated	29.4357	1.7396	0.0000	72.9258



Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	145.01	29.4357	1.7396	0.0000	72.9258
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>29.4357</b>	<b>1.7396</b>	<b>0.0000</b>	<b>72.9258</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	145.01	29.4357	1.7396	0.0000	72.9258
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>29.4357</b>	<b>1.7396</b>	<b>0.0000</b>	<b>72.9258</b>

**9.0 Operational Offroad**

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Moreno Valley Business Park - Phase II (Warehousing Operations) - Riverside-South Coast County, Annual

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX 2.2:**  
**EMFAC EMISSIONS SUMMARY**

**AVERAGE EMISSION FACTOR  
RIVERSIDE COUNTY 2023**

Speed	LHD1	MHD	HHD
0	0.401577	0.039347	0.01233
5	0.036447	0.006028	0.01277
25	0.013286	0.002933	0.00682

Speed	Weighted Average Emissions
0	0.10339
5	0.01648
25	0.00738

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Emission Rates - 2023 Emission Factors

**Truck Emission Rates**

Source	Trucks Per Day	VMT <sup>a</sup> (miles/day)	Truck Emission Rate <sup>b</sup> (grams/mile)	Truck Emission Rate <sup>b</sup> (grams/idle-hour)	Daily Truck Emissions <sup>c</sup> (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	64			0.1034	2.35	2.724E-05
On-Site Travel	128	29.26	0.0165		0.55	6.320E-06
Off-Site Travel Ironwood Avenue 10% Inbound/Outbound	13	4.91	0.0074		0.04	4.446E-07
Off-Site Travel Heavock Street 90% Inbound/Outbound	115	29.33	0.0074		0.23	2.655E-06

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes and each TRU idles for 30 minutes.

calendar_y	season	sub_area	vehicle_class	fuel	temperatu	relative_h	process	speed_tim	pollutant	emission_rate
2023	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.013015
2023	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.00695
2023	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.071342
2023	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.026006
2023	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.006736
2023	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.003278
2023	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.012569
2023	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.786058
2023	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.043967

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: RIVERSIDE COUNTY

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
Riverside (	2023	HHDT	Aggregate	Aggregate	Gasoline	6.287049
Riverside (	2023	HHDT	Aggregate	Aggregate	Diesel	15994.3
Riverside (	2023	HHDT	Aggregate	Aggregate	Natural Ga	297.8339
Riverside (	2023	LHDT1	Aggregate	Aggregate	Gasoline	15202.19
Riverside (	2023	LHDT1	Aggregate	Aggregate	Diesel	15878.18
Riverside (	2023	MHDT	Aggregate	Aggregate	Gasoline	1361.919
Riverside (	2023	MHDT	Aggregate	Aggregate	Diesel	11600.11

HHDT% GAS/NG	0.01866
HHDT% DSL	0.98134
LHDT1% GAS	0.48913
LHDT1% DSL	0.51087
MHDT% GAS	0.10507
MHDT% DSL	0.89493



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**APPENDIX 2.3:**  
**AERMOD MODEL INPUT/OUTPUT**

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\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 10.2.1  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 12/16/2021  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Park\14397  
Construction\14397 Construction.ADI  
\*\*

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\*\* AERMOD Control Pathway  
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\*\*  
CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Pa  
MODELOPT DFAULT CONC  
AVERTIME ANNUAL  
URBANOPT 2189641  
POLLUTID DPM  
FLAGPOLE 0.00  
RUNORNOT RUN  
ERRORFIL "14397 Construction.err"

CO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*

\*\*  
SO STARTING  
\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*  
\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE4  
\*\* DESCRSRC  
\*\* PREFIX  
\*\* Length of Side = 14.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 0.0005646826  
\*\* Vertical Dimension = 6.99  
\*\* SZINIT = 3.25  
\*\* Nodes = 2  
\*\* 477469.588, 3756035.121, 503.81, 3.49, 6.51  
\*\* 477467.894, 3755625.382, 500.00, 3.49, 6.51  
\*\* -----

LOCATION	VOLUME	X Coord.	Y Coord.	Z Coord.
L0000450	477469.559	3756028.122	503.87	
L0000451	477469.502	3756014.122	503.92	
L0000452	477469.444	3756000.122	503.45	
L0000453	477469.386	3755986.122	503.00	
L0000454	477469.328	3755972.122	503.00	
L0000455	477469.270	3755958.122	503.00	
L0000456	477469.212	3755944.122	503.00	
L0000457	477469.154	3755930.122	503.00	
L0000458	477469.096	3755916.123	502.76	
L0000459	477469.039	3755902.123	502.44	
L0000460	477468.981	3755888.123	502.22	
L0000461	477468.923	3755874.123	502.08	
L0000462	477468.865	3755860.123	502.00	
L0000463	477468.807	3755846.123	502.00	
L0000464	477468.749	3755832.123	502.00	
L0000465	477468.691	3755818.123	502.00	
L0000466	477468.633	3755804.123	501.98	
L0000467	477468.576	3755790.124	501.84	

LOCATION	L0000468	VOLUME	477468.518	3755776.124	501.70
LOCATION	L0000469	VOLUME	477468.460	3755762.124	501.37
LOCATION	L0000470	VOLUME	477468.402	3755748.124	501.04
LOCATION	L0000471	VOLUME	477468.344	3755734.124	501.00
LOCATION	L0000472	VOLUME	477468.286	3755720.124	501.00
LOCATION	L0000473	VOLUME	477468.228	3755706.124	501.00
LOCATION	L0000474	VOLUME	477468.170	3755692.124	501.00
LOCATION	L0000475	VOLUME	477468.112	3755678.125	500.72
LOCATION	L0000476	VOLUME	477468.055	3755664.125	500.25
LOCATION	L0000477	VOLUME	477467.997	3755650.125	500.00
LOCATION	L0000478	VOLUME	477467.939	3755636.125	500.00

\*\* End of LINE VOLUME Source ID = SLINE4

LOCATION	VOL1	VOLUME	477516.635	3756216.142	503.000
LOCATION	VOL2	VOLUME	477638.598	3756215.206	503.000
LOCATION	VOL3	VOLUME	477578.892	3756215.741	503.000
LOCATION	VOL4	VOLUME	477515.706	3756058.311	503.000
LOCATION	VOL5	VOLUME	477515.438	3756164.068	503.000
LOCATION	VOL6	VOLUME	477515.438	3756108.646	503.000
LOCATION	VOL7	VOLUME	477578.624	3756163.800	502.040
LOCATION	VOL8	VOLUME	477576.482	3756108.110	502.010
LOCATION	VOL9	VOLUME	477576.482	3756058.311	502.110
LOCATION	VOL10	VOLUME	477638.598	3756163.532	502.870
LOCATION	VOL11	VOLUME	477639.669	3756108.378	502.000
LOCATION	VOL12	VOLUME	477637.794	3756059.114	501.460

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000450	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000451	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000452	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000453	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000454	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000455	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000456	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000457	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000458	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000459	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000460	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000461	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000462	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000463	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000464	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000465	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000466	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000467	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000468	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000469	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000470	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000471	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000472	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000473	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000474	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000475	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000476	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000477	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000478	0.0000194718	3.49	6.51	3.25

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SRCPARAM	VOL1	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL2	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL3	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL4	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL5	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL6	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL7	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL8	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL9	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL10	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL11	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL12	0.0017024354	5.000	14.447	1.400

URBANSRC ALL

















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EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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** AERMOD Receptor Pathway
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RE STARTING
  INCLUDED "14397 Construction.rou"

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RE FINISHED
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*****
** AERMOD Meteorology Pathway
*****

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ME STARTING

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SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC  
PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL  
SURFDATA 3171 2010  
UAIRDATA 3190 2010  
SITEDATA 99999 2010  
PROFBASE 442.0 METERS

ME FINISHED

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\*\* AERMOD Output Pathway

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OU STARTING

\*\* Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL "14397 CONSTRUCTION.AD\AN00GALL.PLT" 31  
SUMMFILE "14397 Construction.sum"

OU FINISHED

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\*\*\*\*\*

\*\* Project Parameters

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\*\* PROJCTN CoordinateSystemUTM  
\*\* DESCPTN UTM: Universal Transverse Mercator  
\*\* DATUM World Geodetic System 1984  
\*\* DTMRGN Global Definition  
\*\* UNITS m  
\*\* ZONE 11  
\*\* ZONEINX 0  
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\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 10.2.1  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 12/16/2021  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Park\14397  
Construction\14397 Construction.ADI  
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\*\* AERMOD Control Pathway  
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CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Pa  
MODELOPT DFAULT CONC  
AVERTIME ANNUAL  
URBANOPT 2189641  
POLLUTID DPM  
FLAGPOLE 0.00  
RUNORNOT RUN  
ERRORFIL "14397 Construction.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*  
\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE4  
\*\* DESCRSRC  
\*\* PREFIX  
\*\* Length of Side = 14.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 0.0005646826  
\*\* Vertical Dimension = 6.99  
\*\* SZINIT = 3.25  
\*\* Nodes = 2  
\*\* 477469.588, 3756035.121, 503.81, 3.49, 6.51  
\*\* 477467.894, 3755625.382, 500.00, 3.49, 6.51  
\*\* -----

LOCATION	L0000450	VOLUME	477469.559	3756028.122	503.87
LOCATION	L0000451	VOLUME	477469.502	3756014.122	503.92
LOCATION	L0000452	VOLUME	477469.444	3756000.122	503.45
LOCATION	L0000453	VOLUME	477469.386	3755986.122	503.00
LOCATION	L0000454	VOLUME	477469.328	3755972.122	503.00
LOCATION	L0000455	VOLUME	477469.270	3755958.122	503.00
LOCATION	L0000456	VOLUME	477469.212	3755944.122	503.00
LOCATION	L0000457	VOLUME	477469.154	3755930.122	503.00
LOCATION	L0000458	VOLUME	477469.096	3755916.123	502.76
LOCATION	L0000459	VOLUME	477469.039	3755902.123	502.44
LOCATION	L0000460	VOLUME	477468.981	3755888.123	502.22
LOCATION	L0000461	VOLUME	477468.923	3755874.123	502.08
LOCATION	L0000462	VOLUME	477468.865	3755860.123	502.00
LOCATION	L0000463	VOLUME	477468.807	3755846.123	502.00
LOCATION	L0000464	VOLUME	477468.749	3755832.123	502.00
LOCATION	L0000465	VOLUME	477468.691	3755818.123	502.00
LOCATION	L0000466	VOLUME	477468.633	3755804.123	501.98
LOCATION	L0000467	VOLUME	477468.576	3755790.124	501.84

LOCATION	L0000468	VOLUME	477468.518	3755776.124	501.70
LOCATION	L0000469	VOLUME	477468.460	3755762.124	501.37
LOCATION	L0000470	VOLUME	477468.402	3755748.124	501.04
LOCATION	L0000471	VOLUME	477468.344	3755734.124	501.00
LOCATION	L0000472	VOLUME	477468.286	3755720.124	501.00
LOCATION	L0000473	VOLUME	477468.228	3755706.124	501.00
LOCATION	L0000474	VOLUME	477468.170	3755692.124	501.00
LOCATION	L0000475	VOLUME	477468.112	3755678.125	500.72
LOCATION	L0000476	VOLUME	477468.055	3755664.125	500.25
LOCATION	L0000477	VOLUME	477467.997	3755650.125	500.00
LOCATION	L0000478	VOLUME	477467.939	3755636.125	500.00

\*\* End of LINE VOLUME Source ID = SLINE4

LOCATION	VOL1	VOLUME	477516.635	3756216.142	503.000
LOCATION	VOL2	VOLUME	477638.598	3756215.206	503.000
LOCATION	VOL3	VOLUME	477578.892	3756215.741	503.000
LOCATION	VOL4	VOLUME	477515.706	3756058.311	503.000
LOCATION	VOL5	VOLUME	477515.438	3756164.068	503.000
LOCATION	VOL6	VOLUME	477515.438	3756108.646	503.000
LOCATION	VOL7	VOLUME	477578.624	3756163.800	502.040
LOCATION	VOL8	VOLUME	477576.482	3756108.110	502.010
LOCATION	VOL9	VOLUME	477576.482	3756058.311	502.110
LOCATION	VOL10	VOLUME	477638.598	3756163.532	502.870
LOCATION	VOL11	VOLUME	477639.669	3756108.378	502.000
LOCATION	VOL12	VOLUME	477637.794	3756059.114	501.460

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000450	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000451	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000452	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000453	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000454	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000455	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000456	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000457	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000458	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000459	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000460	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000461	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000462	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000463	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000464	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000465	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000466	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000467	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000468	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000469	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000470	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000471	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000472	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000473	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000474	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000475	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000476	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000477	0.0000194718	3.49	6.51	3.25
SRCPARAM	L0000478	0.0000194718	3.49	6.51	3.25

\*\*

SRCPARAM	VOL1	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL2	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL3	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL4	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL5	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL6	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL7	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL8	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL9	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL10	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL11	0.0017024354	5.000	14.447	1.400
SRCPARAM	VOL12	0.0017024354	5.000	14.447	1.400
URBANSRC	ALL				

















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EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

```

SO FINISHED

```

**
*****

```

```

** AERMOD Receptor Pathway
*****

```

```

**
**

```

```

RE STARTING
  INCLUDED "14397 Construction.rou"

```

```

RE FINISHED
**

```

```

*****
** AERMOD Meteorology Pathway
*****

```

```

**
**

```

```

ME STARTING

```



SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC  
PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL  
SURFDATA 3171 2010  
UAIRDATA 3190 2010  
SITEDATA 99999 2010  
PROFBASE 442.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

\*\* Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL "14397 CONSTRUCTION.AD\AN00GALL.PLT" 31

SUMMFILE "14397 Construction.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 696 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 696 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

\*\*\* SETUP Finishes Successfully \*\*\*

\*\*\*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 41 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 41 Source(s); 1 Source Group(s); and 54 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 41 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 14397

Construction.err

\*\*File for Summary of Results: 14397

Construction.sum

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*



VOL2	0	0.17024E-02	477638.6	3756215.2	503.0	5.00	14.45	1.40
YES	HRDOW							
VOL3	0	0.17024E-02	477578.9	3756215.7	503.0	5.00	14.45	1.40
YES	HRDOW							
VOL4	0	0.17024E-02	477515.7	3756058.3	503.0	5.00	14.45	1.40
YES	HRDOW							
VOL5	0	0.17024E-02	477515.4	3756164.1	503.0	5.00	14.45	1.40
YES	HRDOW							
VOL6	0	0.17024E-02	477515.4	3756108.6	503.0	5.00	14.45	1.40
YES	HRDOW							
VOL7	0	0.17024E-02	477578.6	3756163.8	502.0	5.00	14.45	1.40
YES	HRDOW							
VOL8	0	0.17024E-02	477576.5	3756108.1	502.0	5.00	14.45	1.40
YES	HRDOW							
VOL9	0	0.17024E-02	477576.5	3756058.3	502.1	5.00	14.45	1.40
YES	HRDOW							
VOL10	0	0.17024E-02	477638.6	3756163.5	502.9	5.00	14.45	1.40
YES	HRDOW							
VOL11	0	0.17024E-02	477639.7	3756108.4	502.0	5.00	14.45	1.40
YES	HRDOW							

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
-----								
-----								

VOL12	0	0.17024E-02	477637.8	3756059.1	501.5	5.00	14.45	1.40
YES	HRDOW							

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs					
-----	-----					
ALL	L0000450	, L0000451	, L0000452	, L0000453	, L0000454	, L0000455
, L0000456	, L0000457	,				
	L0000458	, L0000459	, L0000460	, L0000461	, L0000462	, L0000463
	, L0000464	, L0000465	,			
	L0000466	, L0000467	, L0000468	, L0000469	, L0000470	, L0000471
	, L0000472	, L0000473	,			
	L0000474	, L0000475	, L0000476	, L0000477	, L0000478	, VOL1
	, VOL2	, VOL3	,			

VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9  
, VOL10 , VOL11 ,

VOL12 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----	-----	-----	-----	-----	
L0000457	2189641. L0000455	L0000450 , L0000456	, L0000451	, L0000452	, L0000453	, L0000454	
	L0000458 , L0000464	, L0000459 , L0000465	, L0000460	, L0000461	, L0000462	, L0000463	
	L0000466 , L0000472	, L0000467 , L0000473	, L0000468	, L0000469	, L0000470	, L0000471	
	L0000474 , VOL2	, L0000475 , VOL3	, L0000476	, L0000477	, L0000478	, VOL1	
	VOL4 , VOL10	, VOL5 , VOL11	, VOL6	, VOL7	, VOL8	, VOL9	

VOL12 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000450 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000451 ; SOURCE TYPE = VOLUME :

HRDOW SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000452 ; SOURCE TYPE = VOLUME :

HRDOW SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000453 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000454 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000455 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000456 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000457 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000458 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = L0000459 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000460 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000461 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000462 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source L0000462, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission data: 1-7 AM: 0.0000E+00; 8-11 AM: 0.0000E+00; 12-16 PM: 0.1000E+01; 17-24 PM: 0.0000E+00.

DAY OF WEEK = SATURDAY

Saturday emission data: All hours (1-24) are 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission data: All hours (1-24) are 0.0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000463 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source L0000463, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission data: 1-7 AM: 0.0000E+00; 8-11 AM: 0.0000E+00; 12-16 PM: 0.1000E+01; 17-24 PM: 0.0000E+00.

DAY OF WEEK = SATURDAY

Saturday emission data: All hours (1-24) are 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission data: All hours (1-16) are 0.0000E+00.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000464 ; SOURCE TYPE = VOLUME :

SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

DAY OF WEEK = WEEKDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00
7 .0000E+00	8 .0000E+00	9 .1000E+01	10 .1000E+01	11 .1000E+01	12 .1000E+01
13 .1000E+01	14 .1000E+01	15 .1000E+01	16 .1000E+01	17 .0000E+00	18 .0000E+00
19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00
7 .0000E+00	8 .0000E+00	9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00
13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00	17 .0000E+00	18 .0000E+00
19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00
7 .0000E+00	8 .0000E+00	9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00
13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00	17 .0000E+00	18 .0000E+00
19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000465 ; SOURCE TYPE = VOLUME :

SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

DAY OF WEEK = WEEKDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00
7 .0000E+00	8 .0000E+00	9 .1000E+01	10 .1000E+01	11 .1000E+01	12 .1000E+01
13 .1000E+01	14 .1000E+01	15 .1000E+01	16 .1000E+01	17 .0000E+00	18 .0000E+00
19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00
7 .0000E+00	8 .0000E+00	9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00
13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00	17 .0000E+00	18 .0000E+00
19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000466 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000467 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
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.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000468 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000468 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000470 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000471 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = L0000472 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = L0000473 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000474 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000475 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 17:16:22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000476 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000477 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000478 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

.0000E+00 23 .0000E+00 24 .0000E+00  
DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :



HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno  
Valley Business Pa \*\*\* 12/16/21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 477428.9, 3756158.8, 504.0, 939.0, 0.0); ( 477429.6,  
3756137.9, 504.0, 939.0, 0.0);  
( 477435.8, 3756113.3, 503.9, 939.0, 0.0); ( 477450.5,  
3756085.6, 503.8, 939.0, 0.0);  
( 477447.7, 3756054.8, 504.0, 939.0, 0.0); ( 477438.1,  
3756009.7, 503.8, 939.0, 0.0);  
( 477446.7, 3755992.6, 503.2, 939.0, 0.0); ( 477449.8,  
3755976.5, 503.0, 939.0, 0.0);  
( 477447.4, 3755961.1, 503.0, 939.0, 0.0); ( 477425.5,  
3755942.3, 503.0, 939.0, 0.0);  
( 477413.5, 3755920.1, 502.9, 939.0, 0.0); ( 477427.2,  
3755899.5, 502.2, 939.0, 0.0);  
( 477508.6, 3756013.8, 503.3, 939.0, 0.0); ( 477609.1,  
3756012.4, 502.2, 939.0, 0.0);  
( 477710.4, 3756013.4, 500.9, 939.0, 0.0); ( 477674.8,  
3756041.1, 501.1, 939.0, 0.0);  
( 477675.5, 3756071.2, 501.9, 939.0, 0.0); ( 477675.5,  
3756108.8, 502.2, 939.0, 0.0);  
( 477691.9, 3756162.5, 503.0, 939.0, 0.0); ( 477691.9,  
3756200.5, 503.8, 939.0, 0.0);  
( 477692.2, 3756241.5, 504.4, 939.0, 0.0); ( 477879.0,  
3756240.1, 506.0, 939.0, 0.0);



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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

PERI\_V9\_ADJU\PERI\_v9.SFC

Met

Version: 16216

Profile file:

PERI\_V9\_ADJU\PERI\_v9.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name:

UNKNOWN

Year: 2010

Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
WD	HT	REF	TA	HT													
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30		
335.	9.1	282.5	5.5														
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90		
142.	9.1	280.9	5.5														
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90		
324.	9.1	280.4	5.5														
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40		
294.	9.1	278.8	5.5														
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90		
205.	9.1	278.1	5.5														
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1
0.40	3.	9.1	277.0	5.5													
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30		
99.	9.1	277.0	5.5														
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90		
319.	9.1	278.8	5.5														
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90		
239.	9.1	284.2	5.5														
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40		
188.	9.1	289.2	5.5														
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70		
310.	9.1	290.9	5.5														
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20		
357.	9.1	293.1	5.5														
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20		
356.	9.1	293.8	5.5														
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20		
50.	9.1	294.2	5.5														
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80		
53.	9.1	293.8	5.5														
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80		
11.	9.1	292.5	5.5														
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90		
351.	9.1	290.4	5.5														
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90		
186.	9.1	287.5	5.5														
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90		
275.	9.1	285.9	5.5														

```

10 01 01 1 20 -1.2 0.064 -9.000 -9.000 -999. 39. 18.1 0.19 0.61 1.00 0.40
181. 9.1 285.4 5.5
10 01 01 1 21 -7.8 0.125 -9.000 -9.000 -999. 106. 21.3 0.19 0.61 1.00 1.30
318. 9.1 284.9 5.5
10 01 01 1 22 -3.8 0.088 -9.000 -9.000 -999. 62. 15.1 0.19 0.61 1.00 0.90
196. 9.1 283.1 5.5
10 01 01 1 23 -3.8 0.088 -9.000 -9.000 -999. 62. 15.1 0.19 0.61 1.00 0.90
330. 9.1 281.4 5.5
10 01 01 1 24 -7.9 0.125 -9.000 -9.000 -999. 106. 21.2 0.19 0.61 1.00 1.30
332. 9.1 280.9 5.5

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
10 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00
10 01 01 01 9.1 1 335. 1.30 -999.0 99.0 -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 21112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno
Valley Business Pa *** 12/16/21
*** AERMET - VERSION 16216 ***
*** 17:16:22

```

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR  
SOURCE GROUP: ALL \*\*\*

```

INCLUDING SOURCE(S): L0000450 , L0000451 ,
L0000452 , L0000453 , L0000454 ,
L0000455 , L0000456 , L0000457 , L0000458 , L0000459 ,
L0000460 , L0000461 , L0000462 ,
L0000463 , L0000464 , L0000465 , L0000466 , L0000467 ,
L0000468 , L0000469 , L0000470 ,
L0000471 , L0000472 , L0000473 , L0000474 , L0000475 ,
L0000476 , L0000477 , . . . ,


```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD
477428.91	3756158.76	0.05510	477429.60	
3756137.90	0.05758			
477435.75	3756113.28	0.06526	477450.46	
3756085.58	0.08565			
477447.72	3756054.80	0.07364	477438.15	
3756009.66	0.05022			
477446.69	3755992.56	0.05282	477449.77	
3755976.49	0.05048			
477447.38	3755961.10	0.04356	477425.49	
3755942.29	0.02805			
477413.52	3755920.06	0.02185	477427.20	
3755899.54	0.02278			
477508.59	3756013.76	0.15086	477609.14	
3756012.40	0.18025			
477710.36	3756013.42	0.06950	477674.80	
3756041.12	0.17556			
477675.48	3756071.22	0.20603	477675.48	
3756108.83	0.22104			
477691.89	3756162.53	0.12675	477691.89	
3756200.48	0.10509			
477692.24	3756241.52	0.06762	477878.96	
3756240.15	0.00747			
477960.35	3756240.15	0.00447	477765.76	

3756240.50	0.02138		
477832.11	3756240.50	0.01079	478076.28
3756245.28	0.00257		
478126.21	3756244.94	0.00212	478164.51
3756247.34	0.00185		
478190.84	3756286.66	0.00165	477645.38
3756289.40	0.05883		
477626.23	3756295.56	0.05888	477607.08
3756291.79	0.06725		
478215.19	3756245.99	0.00159	478246.99
3756247.01	0.00145		
477404.68	3756224.78	0.02871	477404.00
3756190.58	0.03279		
477565.07	3756284.29	0.07959	477666.30
3756286.68	0.05143		
477694.68	3756286.34	0.03739	477715.20
3756288.05	0.02866		
477737.43	3756283.60	0.02298	477778.47
3756283.26	0.01518		
477901.24	3756286.34	0.00582	477950.49
3756287.37	0.00437		
477980.24	3756288.73	0.00374	477449.82
3755883.14	0.03121		
477498.04	3755795.59	0.02160	477438.88
3755801.74	0.01861		
477492.57	3755737.45	0.02044	478028.12
3756287.37	0.00298		
478053.09	3756289.76	0.00268	478094.47
3756288.73	0.00229		
478126.96	3756289.76	0.00203	478207.43
3756286.40	0.00157		

 \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno  
 Valley Business Pa \*\*\*      12/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      17:16:22

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF DPM      IN  
 MICROGRAMS/M\*\*3      \*\*

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL,
ZFLAG)	OF TYPE    GRID-ID			
ALL	1ST HIGHEST VALUE IS	0.22104 AT (	477675.48,	3756108.83,    502.25,
939.00,	0.00) DC			
	2ND HIGHEST VALUE IS	0.20603 AT (	477675.48,	3756071.22,    501.86,
939.00,	0.00) DC			
	3RD HIGHEST VALUE IS	0.18025 AT (	477609.14,	3756012.40,    502.16,
939.00,	0.00) DC			
	4TH HIGHEST VALUE IS	0.17556 AT (	477674.80,	3756041.12,    501.14,
939.00,	0.00) DC			
	5TH HIGHEST VALUE IS	0.15086 AT (	477508.59,	3756013.76,    503.34,
939.00,	0.00) DC			
	6TH HIGHEST VALUE IS	0.12675 AT (	477691.89,	3756162.53,    503.00,
939.00,	0.00) DC			
	7TH HIGHEST VALUE IS	0.10509 AT (	477691.89,	3756200.48,    503.77,
939.00,	0.00) DC			
	8TH HIGHEST VALUE IS	0.08565 AT (	477450.46,	3756085.58,    503.79,
939.00,	0.00) DC			

9TH HIGHEST VALUE IS 0.07959 AT ( 477565.07, 3756284.29, 503.93,  
939.00, 0.00) DC  
10TH HIGHEST VALUE IS 0.07364 AT ( 477447.72, 3756054.80, 504.00,  
939.00, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno  
Valley Business Pa \*\*\* 12/16/21

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 17:16:22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 4 Warning Message(s)  
A Total of 2028 Informational Message(s)  
A Total of 43824 Hours Were Processed  
A Total of 978 Calm Hours Identified  
A Total of 1050 Missing Hours Identified ( 2.40 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 696 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 696 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*



\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 10.2.1  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 12/16/2021  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Park\14397 Ops\14397  
Ops.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Pa  
MODELOPT DFAULT CONC  
AVERTIME ANNUAL  
URBANOPT 2189641  
POLLUTID DPM  
FLAGPOLE 0.00  
RUNORNOT RUN  
ERRORFIL "14397 Ops.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE1

\*\* DESCRSRC Onsite Idling

\*\* PREFIX

\*\* Length of Side = 7.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00002724

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 477622.396, 3756183.961, 502.69, 3.49, 3.53

\*\* 477621.568, 3756039.898, 501.75, 3.49, 3.53  
\*\* -----

LOCATION	L0000160	VOLUME	477622.374	3756180.166	502.68
LOCATION	L0000161	VOLUME	477622.330	3756172.576	502.54
LOCATION	L0000162	VOLUME	477622.287	3756164.986	502.40
LOCATION	L0000163	VOLUME	477622.243	3756157.397	502.29
LOCATION	L0000164	VOLUME	477622.199	3756149.807	502.18
LOCATION	L0000165	VOLUME	477622.156	3756142.217	502.08
LOCATION	L0000166	VOLUME	477622.112	3756134.627	502.00
LOCATION	L0000167	VOLUME	477622.069	3756127.037	502.00
LOCATION	L0000168	VOLUME	477622.025	3756119.447	502.00
LOCATION	L0000169	VOLUME	477621.981	3756111.857	502.00
LOCATION	L0000170	VOLUME	477621.938	3756104.267	502.00
LOCATION	L0000171	VOLUME	477621.894	3756096.678	502.00
LOCATION	L0000172	VOLUME	477621.850	3756089.088	502.00
LOCATION	L0000173	VOLUME	477621.807	3756081.498	502.00
LOCATION	L0000174	VOLUME	477621.763	3756073.908	501.97
LOCATION	L0000175	VOLUME	477621.720	3756066.318	501.87
LOCATION	L0000176	VOLUME	477621.676	3756058.728	501.77
LOCATION	L0000177	VOLUME	477621.632	3756051.138	501.67

LOCATION L0000178      VOLUME    477621.589 3756043.548 501.65  
\*\* End of LINE VOLUME Source ID = SLINE1

-----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Onsite

\*\* PREFIX

\*\* Length of Side = 7.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.32E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 6

\*\* 477486.725, 3756035.299, 503.39, 3.49, 3.53

\*\* 477509.496, 3756031.780, 503.33, 3.49, 3.53

\*\* 477640.948, 3756032.608, 501.51, 3.49, 3.53

\*\* 477639.706, 3756182.484, 503.00, 3.49, 3.53

\*\* 477636.394, 3756234.236, 503.04, 3.49, 3.53

\*\* 477632.461, 3756245.208, 503.71, 3.49, 3.53

-----

LOCATION L0000227	VOLUME	477490.476	3756034.720	503.38
LOCATION L0000228	VOLUME	477497.977	3756033.561	503.31
LOCATION L0000229	VOLUME	477505.478	3756032.401	503.22
LOCATION L0000230	VOLUME	477513.020	3756031.803	503.11
LOCATION L0000231	VOLUME	477520.610	3756031.850	503.00
LOCATION L0000232	VOLUME	477528.200	3756031.898	503.00
LOCATION L0000233	VOLUME	477535.789	3756031.946	503.00
LOCATION L0000234	VOLUME	477543.379	3756031.994	503.00
LOCATION L0000235	VOLUME	477550.969	3756032.042	502.98
LOCATION L0000236	VOLUME	477558.559	3756032.089	502.85
LOCATION L0000237	VOLUME	477566.149	3756032.137	502.72
LOCATION L0000238	VOLUME	477573.739	3756032.185	502.58
LOCATION L0000239	VOLUME	477581.329	3756032.233	502.45
LOCATION L0000240	VOLUME	477588.918	3756032.281	502.33
LOCATION L0000241	VOLUME	477596.508	3756032.328	502.21
LOCATION L0000242	VOLUME	477604.098	3756032.376	502.09
LOCATION L0000243	VOLUME	477611.688	3756032.424	501.97
LOCATION L0000244	VOLUME	477619.278	3756032.472	501.83
LOCATION L0000245	VOLUME	477626.868	3756032.520	501.70
LOCATION L0000246	VOLUME	477634.458	3756032.567	501.56
LOCATION L0000247	VOLUME	477640.939	3756033.708	501.41
LOCATION L0000248	VOLUME	477640.876	3756041.298	501.17
LOCATION L0000249	VOLUME	477640.813	3756048.887	501.08
LOCATION L0000250	VOLUME	477640.750	3756056.477	501.33
LOCATION L0000251	VOLUME	477640.687	3756064.067	501.59
LOCATION L0000252	VOLUME	477640.624	3756071.656	501.84
LOCATION L0000253	VOLUME	477640.561	3756079.246	502.00
LOCATION L0000254	VOLUME	477640.499	3756086.836	502.00
LOCATION L0000255	VOLUME	477640.436	3756094.426	502.00
LOCATION L0000256	VOLUME	477640.373	3756102.015	502.00
LOCATION L0000257	VOLUME	477640.310	3756109.605	502.00
LOCATION L0000258	VOLUME	477640.247	3756117.195	502.01
LOCATION L0000259	VOLUME	477640.184	3756124.785	502.01
LOCATION L0000260	VOLUME	477640.121	3756132.374	502.01
LOCATION L0000261	VOLUME	477640.058	3756139.964	502.12
LOCATION L0000262	VOLUME	477639.995	3756147.554	502.37
LOCATION L0000263	VOLUME	477639.932	3756155.144	502.62
LOCATION L0000264	VOLUME	477639.870	3756162.733	502.88
LOCATION L0000265	VOLUME	477639.807	3756170.323	503.00
LOCATION L0000266	VOLUME	477639.744	3756177.913	503.00
LOCATION L0000267	VOLUME	477639.513	3756185.496	503.00
LOCATION L0000268	VOLUME	477639.028	3756193.071	503.00
LOCATION L0000269	VOLUME	477638.544	3756200.645	503.00
LOCATION L0000270	VOLUME	477638.059	3756208.220	503.00
LOCATION L0000271	VOLUME	477637.574	3756215.795	503.00
LOCATION L0000272	VOLUME	477637.089	3756223.369	503.00
LOCATION L0000273	VOLUME	477636.604	3756230.944	503.15
LOCATION L0000274	VOLUME	477634.946	3756238.275	503.39

\*\* End of LINE VOLUME Source ID = SLINE2

```

** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Ironwood 10%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 4.446E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 477631.835, 3756262.504, 503.95, 3.49, 6.51
** 478249.303, 3756265.847, 510.14, 3.49, 6.51
** -----

```

LOCATION	VOLUME	477631.835	3756262.504	503.95	3.49	6.51
LOCATION L0000319	VOLUME	477638.835	3756262.542	504.20		
LOCATION L0000320	VOLUME	477652.835	3756262.618	504.20		
LOCATION L0000321	VOLUME	477666.835	3756262.693	504.21		
LOCATION L0000322	VOLUME	477680.835	3756262.769	504.50		
LOCATION L0000323	VOLUME	477694.834	3756262.845	504.87		
LOCATION L0000324	VOLUME	477708.834	3756262.921	505.06		
LOCATION L0000325	VOLUME	477722.834	3756262.997	505.17		
LOCATION L0000326	VOLUME	477736.834	3756263.073	505.22		
LOCATION L0000327	VOLUME	477750.834	3756263.148	505.22		
LOCATION L0000328	VOLUME	477764.833	3756263.224	505.22		
LOCATION L0000329	VOLUME	477778.833	3756263.300	505.23		
LOCATION L0000330	VOLUME	477792.833	3756263.376	505.31		
LOCATION L0000331	VOLUME	477806.833	3756263.452	505.67		
LOCATION L0000332	VOLUME	477820.833	3756263.527	506.01		
LOCATION L0000333	VOLUME	477834.832	3756263.603	506.12		
LOCATION L0000334	VOLUME	477848.832	3756263.679	506.23		
LOCATION L0000335	VOLUME	477862.832	3756263.755	506.24		
LOCATION L0000336	VOLUME	477876.832	3756263.831	506.24		
LOCATION L0000337	VOLUME	477890.832	3756263.906	506.52		
LOCATION L0000338	VOLUME	477904.831	3756263.982	506.88		
LOCATION L0000339	VOLUME	477918.831	3756264.058	507.00		
LOCATION L0000340	VOLUME	477932.831	3756264.134	507.00		
LOCATION L0000341	VOLUME	477946.831	3756264.210	506.83		
LOCATION L0000342	VOLUME	477960.831	3756264.285	506.48		
LOCATION L0000343	VOLUME	477974.830	3756264.361	506.43		
LOCATION L0000344	VOLUME	477988.830	3756264.437	506.90		
LOCATION L0000345	VOLUME	478002.830	3756264.513	507.27		
LOCATION L0000346	VOLUME	478016.830	3756264.589	507.27		
LOCATION L0000347	VOLUME	478030.830	3756264.664	507.27		
LOCATION L0000348	VOLUME	478044.829	3756264.740	507.28		
LOCATION L0000349	VOLUME	478058.829	3756264.816	507.28		
LOCATION L0000350	VOLUME	478072.829	3756264.892	507.59		
LOCATION L0000351	VOLUME	478086.829	3756264.968	507.93		
LOCATION L0000352	VOLUME	478100.829	3756265.043	508.10		
LOCATION L0000353	VOLUME	478114.828	3756265.119	508.24		
LOCATION L0000354	VOLUME	478128.828	3756265.195	508.50		
LOCATION L0000355	VOLUME	478142.828	3756265.271	508.84		
LOCATION L0000356	VOLUME	478156.828	3756265.347	509.07		
LOCATION L0000357	VOLUME	478170.828	3756265.422	509.21		
LOCATION L0000358	VOLUME	478184.827	3756265.498	509.47		
LOCATION L0000359	VOLUME	478198.827	3756265.574	509.94		
LOCATION L0000360	VOLUME	478212.827	3756265.650	510.31		
LOCATION L0000361	VOLUME	478226.827	3756265.726	510.31		
LOCATION L0000362	VOLUME	478240.826	3756265.801	510.34		

```

** End of LINE VOLUME Source ID = SLINE3
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Heacock 90%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.655E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25

```

\*\* Nodes = 2  
\*\* 477469.588, 3756035.121, 503.81, 3.49, 6.51  
\*\* 477467.894, 3755625.382, 500.00, 3.49, 6.51

-----  
LOCATION L0000392 VOLUME 477469.559 3756028.122 503.87  
LOCATION L0000393 VOLUME 477469.502 3756014.122 503.92  
LOCATION L0000394 VOLUME 477469.444 3756000.122 503.45  
LOCATION L0000395 VOLUME 477469.386 3755986.122 503.00  
LOCATION L0000396 VOLUME 477469.328 3755972.122 503.00  
LOCATION L0000397 VOLUME 477469.270 3755958.122 503.00  
LOCATION L0000398 VOLUME 477469.212 3755944.122 503.00  
LOCATION L0000399 VOLUME 477469.154 3755930.122 503.00  
LOCATION L0000400 VOLUME 477469.096 3755916.123 502.76  
LOCATION L0000401 VOLUME 477469.039 3755902.123 502.44  
LOCATION L0000402 VOLUME 477468.981 3755888.123 502.22  
LOCATION L0000403 VOLUME 477468.923 3755874.123 502.08  
LOCATION L0000404 VOLUME 477468.865 3755860.123 502.00  
LOCATION L0000405 VOLUME 477468.807 3755846.123 502.00  
LOCATION L0000406 VOLUME 477468.749 3755832.123 502.00  
LOCATION L0000407 VOLUME 477468.691 3755818.123 502.00  
LOCATION L0000408 VOLUME 477468.633 3755804.123 501.98  
LOCATION L0000409 VOLUME 477468.576 3755790.124 501.84  
LOCATION L0000410 VOLUME 477468.518 3755776.124 501.70  
LOCATION L0000411 VOLUME 477468.460 3755762.124 501.37  
LOCATION L0000412 VOLUME 477468.402 3755748.124 501.04  
LOCATION L0000413 VOLUME 477468.344 3755734.124 501.00  
LOCATION L0000414 VOLUME 477468.286 3755720.124 501.00  
LOCATION L0000415 VOLUME 477468.228 3755706.124 501.00  
LOCATION L0000416 VOLUME 477468.170 3755692.124 501.00  
LOCATION L0000417 VOLUME 477468.112 3755678.125 500.72  
LOCATION L0000418 VOLUME 477468.055 3755664.125 500.25  
LOCATION L0000419 VOLUME 477467.997 3755650.125 500.00  
LOCATION L0000420 VOLUME 477467.939 3755636.125 500.00

\*\* End of LINE VOLUME Source ID = SLINE4

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE1

SRCPARAM L0000160 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000161 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000162 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000163 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000164 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000165 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000166 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000167 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000168 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000169 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000170 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000171 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000172 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000173 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000174 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000175 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000176 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000177 0.000001434 3.49 3.53 3.25  
SRCPARAM L0000178 0.000001434 3.49 3.53 3.25

-----  
\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM L0000227 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000228 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000229 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000230 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000231 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000232 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000233 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000234 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000235 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000236 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000237 0.0000001317 3.49 3.53 3.25  
SRCPARAM L0000238 0.0000001317 3.49 3.53 3.25



SRCPARAM	L0000350	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000351	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000352	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000353	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000354	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000355	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000356	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000357	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000358	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000359	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000360	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000361	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000362	0.0000000101	3.49	6.51	3.25

\*\* -----

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000392	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000393	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000394	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000395	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000396	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000397	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000398	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000399	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000400	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000401	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000402	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000403	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000404	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000405	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000406	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000407	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000408	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000409	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000410	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000411	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000412	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000413	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000414	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000415	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000416	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000417	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000418	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000419	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000420	0.00000009155	3.49	6.51	3.25

\*\* -----

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14397 Ops.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC  
PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL  
SURFDATA 3171 2010  
UAIRDATA 3190 2010  
SITEDATA 99999 2010

```
PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14397 Ops.AD\AN00GALL.PLT" 31
   SUMMFILE "14397 Ops.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 10.2.1  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 12/16/2021  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Park\14397 Ops\14397  
Ops.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Pa  
MODELOPT DFAULT CONC  
AVERTIME ANNUAL  
URBANOPT 2189641  
POLLUTID DPM  
FLAGPOLE 0.00  
RUNORNOT RUN  
ERRORFIL "14397 Ops.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*  
\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE1  
\*\* DESCRSRC Onsite Idling  
\*\* PREFIX  
\*\* Length of Side = 7.59  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 0.00002724  
\*\* Vertical Dimension = 6.99  
\*\* SZINIT = 3.25  
\*\* Nodes = 2  
\*\* 477622.396, 3756183.961, 502.69, 3.49, 3.53  
\*\* 477621.568, 3756039.898, 501.75, 3.49, 3.53  
\*\* -----

LOCATION	L0000160	VOLUME	477622.374	3756180.166	502.68
LOCATION	L0000161	VOLUME	477622.330	3756172.576	502.54
LOCATION	L0000162	VOLUME	477622.287	3756164.986	502.40
LOCATION	L0000163	VOLUME	477622.243	3756157.397	502.29
LOCATION	L0000164	VOLUME	477622.199	3756149.807	502.18
LOCATION	L0000165	VOLUME	477622.156	3756142.217	502.08
LOCATION	L0000166	VOLUME	477622.112	3756134.627	502.00
LOCATION	L0000167	VOLUME	477622.069	3756127.037	502.00
LOCATION	L0000168	VOLUME	477622.025	3756119.447	502.00
LOCATION	L0000169	VOLUME	477621.981	3756111.857	502.00
LOCATION	L0000170	VOLUME	477621.938	3756104.267	502.00
LOCATION	L0000171	VOLUME	477621.894	3756096.678	502.00
LOCATION	L0000172	VOLUME	477621.850	3756089.088	502.00
LOCATION	L0000173	VOLUME	477621.807	3756081.498	502.00
LOCATION	L0000174	VOLUME	477621.763	3756073.908	501.97
LOCATION	L0000175	VOLUME	477621.720	3756066.318	501.87
LOCATION	L0000176	VOLUME	477621.676	3756058.728	501.77
LOCATION	L0000177	VOLUME	477621.632	3756051.138	501.67



LOCATION L0000178      VOLUME    477621.589 3756043.548 501.65  
\*\* End of LINE VOLUME Source ID = SLINE1

-----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Onsite

\*\* PREFIX

\*\* Length of Side = 7.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.32E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 6

\*\* 477486.725, 3756035.299, 503.39, 3.49, 3.53

\*\* 477509.496, 3756031.780, 503.33, 3.49, 3.53

\*\* 477640.948, 3756032.608, 501.51, 3.49, 3.53

\*\* 477639.706, 3756182.484, 503.00, 3.49, 3.53

\*\* 477636.394, 3756234.236, 503.04, 3.49, 3.53

\*\* 477632.461, 3756245.208, 503.71, 3.49, 3.53

-----

LOCATION L0000227	VOLUME	477490.476	3756034.720	503.38
LOCATION L0000228	VOLUME	477497.977	3756033.561	503.31
LOCATION L0000229	VOLUME	477505.478	3756032.401	503.22
LOCATION L0000230	VOLUME	477513.020	3756031.803	503.11
LOCATION L0000231	VOLUME	477520.610	3756031.850	503.00
LOCATION L0000232	VOLUME	477528.200	3756031.898	503.00
LOCATION L0000233	VOLUME	477535.789	3756031.946	503.00
LOCATION L0000234	VOLUME	477543.379	3756031.994	503.00
LOCATION L0000235	VOLUME	477550.969	3756032.042	502.98
LOCATION L0000236	VOLUME	477558.559	3756032.089	502.85
LOCATION L0000237	VOLUME	477566.149	3756032.137	502.72
LOCATION L0000238	VOLUME	477573.739	3756032.185	502.58
LOCATION L0000239	VOLUME	477581.329	3756032.233	502.45
LOCATION L0000240	VOLUME	477588.918	3756032.281	502.33
LOCATION L0000241	VOLUME	477596.508	3756032.328	502.21
LOCATION L0000242	VOLUME	477604.098	3756032.376	502.09
LOCATION L0000243	VOLUME	477611.688	3756032.424	501.97
LOCATION L0000244	VOLUME	477619.278	3756032.472	501.83
LOCATION L0000245	VOLUME	477626.868	3756032.520	501.70
LOCATION L0000246	VOLUME	477634.458	3756032.567	501.56
LOCATION L0000247	VOLUME	477640.939	3756033.708	501.41
LOCATION L0000248	VOLUME	477640.876	3756041.298	501.17
LOCATION L0000249	VOLUME	477640.813	3756048.887	501.08
LOCATION L0000250	VOLUME	477640.750	3756056.477	501.33
LOCATION L0000251	VOLUME	477640.687	3756064.067	501.59
LOCATION L0000252	VOLUME	477640.624	3756071.656	501.84
LOCATION L0000253	VOLUME	477640.561	3756079.246	502.00
LOCATION L0000254	VOLUME	477640.499	3756086.836	502.00
LOCATION L0000255	VOLUME	477640.436	3756094.426	502.00
LOCATION L0000256	VOLUME	477640.373	3756102.015	502.00
LOCATION L0000257	VOLUME	477640.310	3756109.605	502.00
LOCATION L0000258	VOLUME	477640.247	3756117.195	502.01
LOCATION L0000259	VOLUME	477640.184	3756124.785	502.01
LOCATION L0000260	VOLUME	477640.121	3756132.374	502.01
LOCATION L0000261	VOLUME	477640.058	3756139.964	502.12
LOCATION L0000262	VOLUME	477639.995	3756147.554	502.37
LOCATION L0000263	VOLUME	477639.932	3756155.144	502.62
LOCATION L0000264	VOLUME	477639.870	3756162.733	502.88
LOCATION L0000265	VOLUME	477639.807	3756170.323	503.00
LOCATION L0000266	VOLUME	477639.744	3756177.913	503.00
LOCATION L0000267	VOLUME	477639.513	3756185.496	503.00
LOCATION L0000268	VOLUME	477639.028	3756193.071	503.00
LOCATION L0000269	VOLUME	477638.544	3756200.645	503.00
LOCATION L0000270	VOLUME	477638.059	3756208.220	503.00
LOCATION L0000271	VOLUME	477637.574	3756215.795	503.00
LOCATION L0000272	VOLUME	477637.089	3756223.369	503.00
LOCATION L0000273	VOLUME	477636.604	3756230.944	503.15
LOCATION L0000274	VOLUME	477634.946	3756238.275	503.39

\*\* End of LINE VOLUME Source ID = SLINE2

```

** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Ironwood 10%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 4.446E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 477631.835, 3756262.504, 503.95, 3.49, 6.51
** 478249.303, 3756265.847, 510.14, 3.49, 6.51
** -----

```

LOCATION	L0000319	VOLUME	477638.835	3756262.542	504.20
LOCATION	L0000320	VOLUME	477652.835	3756262.618	504.20
LOCATION	L0000321	VOLUME	477666.835	3756262.693	504.21
LOCATION	L0000322	VOLUME	477680.835	3756262.769	504.50
LOCATION	L0000323	VOLUME	477694.834	3756262.845	504.87
LOCATION	L0000324	VOLUME	477708.834	3756262.921	505.06
LOCATION	L0000325	VOLUME	477722.834	3756262.997	505.17
LOCATION	L0000326	VOLUME	477736.834	3756263.073	505.22
LOCATION	L0000327	VOLUME	477750.834	3756263.148	505.22
LOCATION	L0000328	VOLUME	477764.833	3756263.224	505.22
LOCATION	L0000329	VOLUME	477778.833	3756263.300	505.23
LOCATION	L0000330	VOLUME	477792.833	3756263.376	505.31
LOCATION	L0000331	VOLUME	477806.833	3756263.452	505.67
LOCATION	L0000332	VOLUME	477820.833	3756263.527	506.01
LOCATION	L0000333	VOLUME	477834.832	3756263.603	506.12
LOCATION	L0000334	VOLUME	477848.832	3756263.679	506.23
LOCATION	L0000335	VOLUME	477862.832	3756263.755	506.24
LOCATION	L0000336	VOLUME	477876.832	3756263.831	506.24
LOCATION	L0000337	VOLUME	477890.832	3756263.906	506.52
LOCATION	L0000338	VOLUME	477904.831	3756263.982	506.88
LOCATION	L0000339	VOLUME	477918.831	3756264.058	507.00
LOCATION	L0000340	VOLUME	477932.831	3756264.134	507.00
LOCATION	L0000341	VOLUME	477946.831	3756264.210	506.83
LOCATION	L0000342	VOLUME	477960.831	3756264.285	506.48
LOCATION	L0000343	VOLUME	477974.830	3756264.361	506.43
LOCATION	L0000344	VOLUME	477988.830	3756264.437	506.90
LOCATION	L0000345	VOLUME	478002.830	3756264.513	507.27
LOCATION	L0000346	VOLUME	478016.830	3756264.589	507.27
LOCATION	L0000347	VOLUME	478030.830	3756264.664	507.27
LOCATION	L0000348	VOLUME	478044.829	3756264.740	507.28
LOCATION	L0000349	VOLUME	478058.829	3756264.816	507.28
LOCATION	L0000350	VOLUME	478072.829	3756264.892	507.59
LOCATION	L0000351	VOLUME	478086.829	3756264.968	507.93
LOCATION	L0000352	VOLUME	478100.829	3756265.043	508.10
LOCATION	L0000353	VOLUME	478114.828	3756265.119	508.24
LOCATION	L0000354	VOLUME	478128.828	3756265.195	508.50
LOCATION	L0000355	VOLUME	478142.828	3756265.271	508.84
LOCATION	L0000356	VOLUME	478156.828	3756265.347	509.07
LOCATION	L0000357	VOLUME	478170.828	3756265.422	509.21
LOCATION	L0000358	VOLUME	478184.827	3756265.498	509.47
LOCATION	L0000359	VOLUME	478198.827	3756265.574	509.94
LOCATION	L0000360	VOLUME	478212.827	3756265.650	510.31
LOCATION	L0000361	VOLUME	478226.827	3756265.726	510.31
LOCATION	L0000362	VOLUME	478240.826	3756265.801	510.34

```

** End of LINE VOLUME Source ID = SLINE3
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Heacock 90%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.655E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25

```

\*\* Nodes = 2  
\*\* 477469.588, 3756035.121, 503.81, 3.49, 6.51  
\*\* 477467.894, 3755625.382, 500.00, 3.49, 6.51

---

LOCATION	L0000392	VOLUME	477469.559	3756028.122	503.87
LOCATION	L0000393	VOLUME	477469.502	3756014.122	503.92
LOCATION	L0000394	VOLUME	477469.444	3756000.122	503.45
LOCATION	L0000395	VOLUME	477469.386	3755986.122	503.00
LOCATION	L0000396	VOLUME	477469.328	3755972.122	503.00
LOCATION	L0000397	VOLUME	477469.270	3755958.122	503.00
LOCATION	L0000398	VOLUME	477469.212	3755944.122	503.00
LOCATION	L0000399	VOLUME	477469.154	3755930.122	503.00
LOCATION	L0000400	VOLUME	477469.096	3755916.123	502.76
LOCATION	L0000401	VOLUME	477469.039	3755902.123	502.44
LOCATION	L0000402	VOLUME	477468.981	3755888.123	502.22
LOCATION	L0000403	VOLUME	477468.923	3755874.123	502.08
LOCATION	L0000404	VOLUME	477468.865	3755860.123	502.00
LOCATION	L0000405	VOLUME	477468.807	3755846.123	502.00
LOCATION	L0000406	VOLUME	477468.749	3755832.123	502.00
LOCATION	L0000407	VOLUME	477468.691	3755818.123	502.00
LOCATION	L0000408	VOLUME	477468.633	3755804.123	501.98
LOCATION	L0000409	VOLUME	477468.576	3755790.124	501.84
LOCATION	L0000410	VOLUME	477468.518	3755776.124	501.70
LOCATION	L0000411	VOLUME	477468.460	3755762.124	501.37
LOCATION	L0000412	VOLUME	477468.402	3755748.124	501.04
LOCATION	L0000413	VOLUME	477468.344	3755734.124	501.00
LOCATION	L0000414	VOLUME	477468.286	3755720.124	501.00
LOCATION	L0000415	VOLUME	477468.228	3755706.124	501.00
LOCATION	L0000416	VOLUME	477468.170	3755692.124	501.00
LOCATION	L0000417	VOLUME	477468.112	3755678.125	500.72
LOCATION	L0000418	VOLUME	477468.055	3755664.125	500.25
LOCATION	L0000419	VOLUME	477467.997	3755650.125	500.00
LOCATION	L0000420	VOLUME	477467.939	3755636.125	500.00

\*\* End of LINE VOLUME Source ID = SLINE4

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000160	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000161	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000162	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000163	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000164	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000165	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000166	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000167	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000168	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000169	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000170	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000171	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000172	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000173	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000174	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000175	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000176	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000177	0.000001434	3.49	3.53	3.25
SRCPARAM	L0000178	0.000001434	3.49	3.53	3.25

---

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0000227	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000228	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000229	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000230	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000231	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000232	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000233	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000234	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000235	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000236	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000237	0.0000001317	3.49	3.53	3.25
SRCPARAM	L0000238	0.0000001317	3.49	3.53	3.25



SRCPARAM	L0000350	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000351	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000352	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000353	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000354	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000355	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000356	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000357	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000358	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000359	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000360	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000361	0.0000000101	3.49	6.51	3.25
SRCPARAM	L0000362	0.0000000101	3.49	6.51	3.25

\*\* -----

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000392	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000393	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000394	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000395	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000396	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000397	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000398	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000399	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000400	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000401	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000402	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000403	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000404	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000405	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000406	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000407	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000408	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000409	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000410	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000411	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000412	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000413	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000414	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000415	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000416	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000417	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000418	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000419	0.00000009155	3.49	6.51	3.25
SRCPARAM	L0000420	0.00000009155	3.49	6.51	3.25

\*\* -----

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14397 Ops.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC  
PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL  
SURFDATA 3171 2010  
UAIRDATA 3190 2010  
SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

\*\*
\*\*\*\*\*
\*\* AERMOD Output Pathway
\*\*\*\*\*
\*\*
\*\*

OU STARTING

\*\* Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL "14397 Ops.AD\AN00GALL.PLT" 31
SUMMFILE "14397 Ops.sum"

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 415 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 415 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*
\*\*\* SETUP Finishes Successfully \*\*\*
\*\*\*\*\*

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno
Valley Business Pa \*\*\* 12/16/21

\*\*\* AERMET - VERSION 16216 \*\*\*
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.
\*\*NO PARTICLE DEPOSITION Data Provided.
\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F
\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 140 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

- \*\*Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 140 Source(s); 1 Source Group(s); and 54 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 140 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. =  
0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate  
Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 14397

Ops.err

\*\*File for Summary of Results: 14397

Ops.sum

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno  
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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.
SCALAR VARY	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	SY	SZ
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

(METERS)		BY						
L0000160	0	0.14340E-05	477622.4	3756180.2	502.7	3.49	3.53	3.25
YES								
L0000161	0	0.14340E-05	477622.3	3756172.6	502.5	3.49	3.53	3.25
YES								
L0000162	0	0.14340E-05	477622.3	3756165.0	502.4	3.49	3.53	3.25
YES								
L0000163	0	0.14340E-05	477622.2	3756157.4	502.3	3.49	3.53	3.25
YES								
L0000164	0	0.14340E-05	477622.2	3756149.8	502.2	3.49	3.53	3.25
YES								
L0000165	0	0.14340E-05	477622.2	3756142.2	502.1	3.49	3.53	3.25
YES								
L0000166	0	0.14340E-05	477622.1	3756134.6	502.0	3.49	3.53	3.25
YES								
L0000167	0	0.14340E-05	477622.1	3756127.0	502.0	3.49	3.53	3.25
YES								
L0000168	0	0.14340E-05	477622.0	3756119.4	502.0	3.49	3.53	3.25
YES								
L0000169	0	0.14340E-05	477622.0	3756111.9	502.0	3.49	3.53	3.25
YES								
L0000170	0	0.14340E-05	477621.9	3756104.3	502.0	3.49	3.53	3.25
YES								
L0000171	0	0.14340E-05	477621.9	3756096.7	502.0	3.49	3.53	3.25
YES								
L0000172	0	0.14340E-05	477621.8	3756089.1	502.0	3.49	3.53	3.25
YES								
L0000173	0	0.14340E-05	477621.8	3756081.5	502.0	3.49	3.53	3.25
YES								
L0000174	0	0.14340E-05	477621.8	3756073.9	502.0	3.49	3.53	3.25
YES								
L0000175	0	0.14340E-05	477621.7	3756066.3	501.9	3.49	3.53	3.25
YES								
L0000176	0	0.14340E-05	477621.7	3756058.7	501.8	3.49	3.53	3.25
YES								
L0000177	0	0.14340E-05	477621.6	3756051.1	501.7	3.49	3.53	3.25
YES								
L0000178	0	0.14340E-05	477621.6	3756043.5	501.7	3.49	3.53	3.25
YES								
L0000227	0	0.13170E-06	477490.5	3756034.7	503.4	3.49	3.53	3.25
YES								
L0000228	0	0.13170E-06	477498.0	3756033.6	503.3	3.49	3.53	3.25
YES								
L0000229	0	0.13170E-06	477505.5	3756032.4	503.2	3.49	3.53	3.25
YES								
L0000230	0	0.13170E-06	477513.0	3756031.8	503.1	3.49	3.53	3.25
YES								
L0000231	0	0.13170E-06	477520.6	3756031.8	503.0	3.49	3.53	3.25
YES								
L0000232	0	0.13170E-06	477528.2	3756031.9	503.0	3.49	3.53	3.25
YES								
L0000233	0	0.13170E-06	477535.8	3756031.9	503.0	3.49	3.53	3.25
YES								
L0000234	0	0.13170E-06	477543.4	3756032.0	503.0	3.49	3.53	3.25
YES								
L0000235	0	0.13170E-06	477551.0	3756032.0	503.0	3.49	3.53	3.25
YES								
L0000236	0	0.13170E-06	477558.6	3756032.1	502.9	3.49	3.53	3.25
YES								
L0000237	0	0.13170E-06	477566.1	3756032.1	502.7	3.49	3.53	3.25
YES								
L0000238	0	0.13170E-06	477573.7	3756032.2	502.6	3.49	3.53	3.25
YES								
L0000239	0	0.13170E-06	477581.3	3756032.2	502.4	3.49	3.53	3.25
YES								
L0000240	0	0.13170E-06	477588.9	3756032.3	502.3	3.49	3.53	3.25





L0000265	0	0.13170E-06	477639.8	3756170.3	503.0	3.49	3.53	3.25
YES								
L0000266	0	0.13170E-06	477639.7	3756177.9	503.0	3.49	3.53	3.25
YES								
L0000267	0	0.13170E-06	477639.5	3756185.5	503.0	3.49	3.53	3.25
YES								
L0000268	0	0.13170E-06	477639.0	3756193.1	503.0	3.49	3.53	3.25
YES								
L0000269	0	0.13170E-06	477638.5	3756200.6	503.0	3.49	3.53	3.25
YES								
L0000270	0	0.13170E-06	477638.1	3756208.2	503.0	3.49	3.53	3.25
YES								
L0000271	0	0.13170E-06	477637.6	3756215.8	503.0	3.49	3.53	3.25
YES								
L0000272	0	0.13170E-06	477637.1	3756223.4	503.0	3.49	3.53	3.25
YES								
L0000273	0	0.13170E-06	477636.6	3756230.9	503.2	3.49	3.53	3.25
YES								
L0000274	0	0.13170E-06	477634.9	3756238.3	503.4	3.49	3.53	3.25
YES								
L0000319	0	0.10100E-07	477638.8	3756262.5	504.2	3.49	6.51	3.25
YES								
L0000320	0	0.10100E-07	477652.8	3756262.6	504.2	3.49	6.51	3.25
YES								
L0000321	0	0.10100E-07	477666.8	3756262.7	504.2	3.49	6.51	3.25
YES								
L0000322	0	0.10100E-07	477680.8	3756262.8	504.5	3.49	6.51	3.25
YES								
L0000323	0	0.10100E-07	477694.8	3756262.8	504.9	3.49	6.51	3.25
YES								
L0000324	0	0.10100E-07	477708.8	3756262.9	505.1	3.49	6.51	3.25
YES								
L0000325	0	0.10100E-07	477722.8	3756263.0	505.2	3.49	6.51	3.25
YES								
L0000326	0	0.10100E-07	477736.8	3756263.1	505.2	3.49	6.51	3.25
YES								
L0000327	0	0.10100E-07	477750.8	3756263.1	505.2	3.49	6.51	3.25
YES								
L0000328	0	0.10100E-07	477764.8	3756263.2	505.2	3.49	6.51	3.25
YES								
L0000329	0	0.10100E-07	477778.8	3756263.3	505.2	3.49	6.51	3.25
YES								
L0000330	0	0.10100E-07	477792.8	3756263.4	505.3	3.49	6.51	3.25
YES								
L0000331	0	0.10100E-07	477806.8	3756263.5	505.7	3.49	6.51	3.25
YES								

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)		X	ELEV.	HEIGHT	SY	SZ
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000332	0	0.10100E-07	477820.8	3756263.5	506.0	3.49	6.51	3.25
YES								
L0000333	0	0.10100E-07	477834.8	3756263.6	506.1	3.49	6.51	3.25



L0000397	0	0.91550E-07	477469.3	3755958.1	503.0	3.49	6.51	3.25
YES								
L0000398	0	0.91550E-07	477469.2	3755944.1	503.0	3.49	6.51	3.25
YES								
L0000399	0	0.91550E-07	477469.2	3755930.1	503.0	3.49	6.51	3.25
YES								
L0000400	0	0.91550E-07	477469.1	3755916.1	502.8	3.49	6.51	3.25
YES								

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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR VARY	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
L0000401	0	0.91550E-07	477469.0	3755902.1	502.4	3.49	6.51	3.25
YES								
L0000402	0	0.91550E-07	477469.0	3755888.1	502.2	3.49	6.51	3.25
YES								
L0000403	0	0.91550E-07	477468.9	3755874.1	502.1	3.49	6.51	3.25
YES								
L0000404	0	0.91550E-07	477468.9	3755860.1	502.0	3.49	6.51	3.25
YES								
L0000405	0	0.91550E-07	477468.8	3755846.1	502.0	3.49	6.51	3.25
YES								
L0000406	0	0.91550E-07	477468.7	3755832.1	502.0	3.49	6.51	3.25
YES								
L0000407	0	0.91550E-07	477468.7	3755818.1	502.0	3.49	6.51	3.25
YES								
L0000408	0	0.91550E-07	477468.6	3755804.1	502.0	3.49	6.51	3.25
YES								
L0000409	0	0.91550E-07	477468.6	3755790.1	501.8	3.49	6.51	3.25
YES								
L0000410	0	0.91550E-07	477468.5	3755776.1	501.7	3.49	6.51	3.25
YES								
L0000411	0	0.91550E-07	477468.5	3755762.1	501.4	3.49	6.51	3.25
YES								
L0000412	0	0.91550E-07	477468.4	3755748.1	501.0	3.49	6.51	3.25
YES								
L0000413	0	0.91550E-07	477468.3	3755734.1	501.0	3.49	6.51	3.25
YES								
L0000414	0	0.91550E-07	477468.3	3755720.1	501.0	3.49	6.51	3.25
YES								
L0000415	0	0.91550E-07	477468.2	3755706.1	501.0	3.49	6.51	3.25
YES								
L0000416	0	0.91550E-07	477468.2	3755692.1	501.0	3.49	6.51	3.25
YES								
L0000417	0	0.91550E-07	477468.1	3755678.1	500.7	3.49	6.51	3.25
YES								
L0000418	0	0.91550E-07	477468.1	3755664.1	500.2	3.49	6.51	3.25
YES								
L0000419	0	0.91550E-07	477468.0	3755650.1	500.0	3.49	6.51	3.25
YES								
L0000420	0	0.91550E-07	477467.9	3755636.1	500.0	3.49	6.51	3.25
YES								

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

ALL	L0000160	,	L0000161	,	L0000162	,	L0000163	,	L0000164	,	L0000165
,	L0000166	,	L0000167	,							
	L0000168	,	L0000169	,	L0000170	,	L0000171	,	L0000172	,	L0000173
	,	L0000174	,	L0000175	,						
	L0000176	,	L0000177	,	L0000178	,	L0000227	,	L0000228	,	L0000229
	,	L0000230	,	L0000231	,						
	L0000232	,	L0000233	,	L0000234	,	L0000235	,	L0000236	,	L0000237
	,	L0000238	,	L0000239	,						
	L0000240	,	L0000241	,	L0000242	,	L0000243	,	L0000244	,	L0000245
	,	L0000246	,	L0000247	,						
	L0000248	,	L0000249	,	L0000250	,	L0000251	,	L0000252	,	L0000253
	,	L0000254	,	L0000255	,						
	L0000256	,	L0000257	,	L0000258	,	L0000259	,	L0000260	,	L0000261
	,	L0000262	,	L0000263	,						
	L0000264	,	L0000265	,	L0000266	,	L0000267	,	L0000268	,	L0000269
	,	L0000270	,	L0000271	,						
	L0000272	,	L0000273	,	L0000274	,	L0000319	,	L0000320	,	L0000321
	,	L0000322	,	L0000323	,						
	L0000324	,	L0000325	,	L0000326	,	L0000327	,	L0000328	,	L0000329
	,	L0000330	,	L0000331	,						
	L0000332	,	L0000333	,	L0000334	,	L0000335	,	L0000336	,	L0000337
	,	L0000338	,	L0000339	,						
	L0000340	,	L0000341	,	L0000342	,	L0000343	,	L0000344	,	L0000345
	,	L0000346	,	L0000347	,						
	L0000348	,	L0000349	,	L0000350	,	L0000351	,	L0000352	,	L0000353
	,	L0000354	,	L0000355	,						
	L0000356	,	L0000357	,	L0000358	,	L0000359	,	L0000360	,	L0000361
	,	L0000362	,	L0000392	,						
	L0000393	,	L0000394	,	L0000395	,	L0000396	,	L0000397	,	L0000398
	,	L0000399	,	L0000400	,						
	L0000401	,	L0000402	,	L0000403	,	L0000404	,	L0000405	,	L0000406
	,	L0000407	,	L0000408	,						
	L0000409	,	L0000410	,	L0000411	,	L0000412	,	L0000413	,	L0000414
	,	L0000415	,	L0000416	,						
	L0000417	,	L0000418	,	L0000419	,	L0000420	,			

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----	-----	-----	-----	-----	-----
L0000167	2189641. L0000165	L0000160 , L0000166	, L0000161 ,	, L0000162	, L0000163	, L0000164	,
	L0000168 , L0000174	, L0000169 , L0000175	, L0000170 ,	, L0000171	, L0000172	, L0000173	
	L0000176 , L0000230	, L0000177 , L0000231	, L0000178 ,	, L0000227	, L0000228	, L0000229	
	L0000232 , L0000238	, L0000233 , L0000239	, L0000234 ,	, L0000235	, L0000236	, L0000237	
	L0000240 , L0000246	, L0000241 , L0000247	, L0000242 ,	, L0000243	, L0000244	, L0000245	
	L0000248 , L0000254	, L0000249 , L0000255	, L0000250 ,	, L0000251	, L0000252	, L0000253	
	L0000256 , L0000262	, L0000257 , L0000263	, L0000258 ,	, L0000259	, L0000260	, L0000261	
	L0000264 , L0000270	, L0000265 , L0000271	, L0000266 ,	, L0000267	, L0000268	, L0000269	
	L0000272 , L0000322	, L0000273 , L0000323	, L0000274 ,	, L0000319	, L0000320	, L0000321	
	L0000324 , L0000330	, L0000325 , L0000331	, L0000326 ,	, L0000327	, L0000328	, L0000329	
	L0000332 , L0000338	, L0000333 , L0000339	, L0000334 ,	, L0000335	, L0000336	, L0000337	
	L0000340 , L0000346	, L0000341 , L0000347	, L0000342 ,	, L0000343	, L0000344	, L0000345	
	L0000348 , L0000354	, L0000349 , L0000355	, L0000350 ,	, L0000351	, L0000352	, L0000353	
	L0000356 , L0000362	, L0000357 , L0000392	, L0000358 ,	, L0000359	, L0000360	, L0000361	
	L0000393 , L0000399	, L0000394 , L0000400	, L0000395 ,	, L0000396	, L0000397	, L0000398	
	L0000401 , L0000407	, L0000402 , L0000408	, L0000403 ,	, L0000404	, L0000405	, L0000406	
	L0000409 , L0000415	, L0000410 , L0000416	, L0000411 ,	, L0000412	, L0000413	, L0000414	
	L0000417	, L0000418	, L0000419	, L0000420			

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 477428.9, 3756158.8, 504.0, 939.0, 0.0);	( 477429.6,
3756137.9, 504.0, 939.0, 0.0);	
( 477435.8, 3756113.3, 503.9, 939.0, 0.0);	( 477450.5,
3756085.6, 503.8, 939.0, 0.0);	
( 477447.7, 3756054.8, 504.0, 939.0, 0.0);	( 477438.1,
3756009.7, 503.8, 939.0, 0.0);	
( 477446.7, 3755992.6, 503.2, 939.0, 0.0);	( 477449.8,
3755976.5, 503.0, 939.0, 0.0);	
( 477447.4, 3755961.1, 503.0, 939.0, 0.0);	( 477425.5,
3755942.3, 503.0, 939.0, 0.0);	
( 477413.5, 3755920.1, 502.9, 939.0, 0.0);	( 477427.2,
3755899.5, 502.2, 939.0, 0.0);	
( 477508.6, 3756013.8, 503.3, 939.0, 0.0);	( 477609.1,
3756012.4, 502.2, 939.0, 0.0);	
( 477710.4, 3756013.4, 500.9, 939.0, 0.0);	( 477674.8,
3756041.1, 501.1, 939.0, 0.0);	
( 477675.5, 3756071.2, 501.9, 939.0, 0.0);	( 477675.5,
3756108.8, 502.2, 939.0, 0.0);	
( 477691.9, 3756162.5, 503.0, 939.0, 0.0);	( 477691.9,
3756200.5, 503.8, 939.0, 0.0);	
( 477692.2, 3756241.5, 504.4, 939.0, 0.0);	( 477879.0,
3756240.1, 506.0, 939.0, 0.0);	
( 477960.3, 3756240.1, 506.1, 939.0, 0.0);	( 477765.8,
3756240.5, 505.0, 939.0, 0.0);	
( 477832.1, 3756240.5, 506.0, 939.0, 0.0);	( 478076.3,
3756245.3, 507.3, 930.0, 0.0);	
( 478126.2, 3756244.9, 508.1, 930.0, 0.0);	( 478164.5,
3756247.3, 508.8, 904.0, 0.0);	
( 478190.8, 3756286.7, 510.4, 904.0, 0.0);	( 477645.4,
3756289.4, 505.0, 939.0, 0.0);	
( 477626.2, 3756295.6, 504.7, 939.0, 0.0);	( 477607.1,
3756291.8, 504.2, 939.0, 0.0);	
( 478215.2, 3756246.0, 509.7, 904.0, 0.0);	( 478247.0,
3756247.0, 509.9, 904.0, 0.0);	
( 477404.7, 3756224.8, 504.7, 939.0, 0.0);	( 477404.0,
3756190.6, 504.9, 939.0, 0.0);	
( 477565.1, 3756284.3, 503.9, 939.0, 0.0);	( 477666.3,
3756286.7, 505.0, 939.0, 0.0);	
( 477694.7, 3756286.3, 505.0, 939.0, 0.0);	( 477715.2,
3756288.0, 505.5, 939.0, 0.0);	
( 477737.4, 3756283.6, 505.9, 939.0, 0.0);	( 477778.5,
3756283.3, 505.9, 939.0, 0.0);	
( 477901.2, 3756286.3, 507.0, 939.0, 0.0);	( 477950.5,
3756287.4, 507.0, 939.0, 0.0);	
( 477980.2, 3756288.7, 507.4, 939.0, 0.0);	( 477449.8,
3755883.1, 502.0, 939.0, 0.0);	
( 477498.0, 3755795.6, 501.7, 939.0, 0.0);	( 477438.9,
3755801.7, 502.0, 939.0, 0.0);	
( 477492.6, 3755737.4, 501.0, 939.0, 0.0);	( 478028.1,
3756287.4, 508.0, 939.0, 0.0);	
( 478053.1, 3756289.8, 508.1, 939.0, 0.0);	( 478094.5,
3756288.7, 508.2, 930.0, 0.0);	
( 478127.0, 3756289.8, 509.0, 930.0, 0.0);	( 478207.4,
3756286.4, 510.9, 904.0, 0.0);	

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*





10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90
205.	9.1	278.1	5.5												
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	
0.40	3.	9.1	277.0	5.5											
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30
99.	9.1	277.0	5.5												
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90
319.	9.1	278.8	5.5												
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90
239.	9.1	284.2	5.5												
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40
188.	9.1	289.2	5.5												
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70
310.	9.1	290.9	5.5												
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20
357.	9.1	293.1	5.5												
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20
356.	9.1	293.8	5.5												
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20
50.	9.1	294.2	5.5												
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80
53.	9.1	293.8	5.5												
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80
11.	9.1	292.5	5.5												
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90
351.	9.1	290.4	5.5												
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90
186.	9.1	287.5	5.5												
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90
275.	9.1	285.9	5.5												
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40
181.	9.1	285.4	5.5												
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30
318.	9.1	284.9	5.5												
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90
196.	9.1	283.1	5.5												
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90
330.	9.1	281.4	5.5												
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30
332.	9.1	280.9	5.5												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): L0000160 , L0000161 ,  
 L0000162 , L0000163 , L0000164 ,  
 L0000165 , L0000166 , L0000167 , L0000168 , L0000169 ,  
 L0000170 , L0000171 , L0000172 ,  
 L0000173 , L0000174 , L0000175 , L0000176 , L0000177 ,  
 L0000178 , L0000227 , L0000228 ,  
 L0000229 , L0000230 , L0000231 , L0000232 , L0000233 ,  
 L0000234 , L0000235 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM  
MICROGRAMS/M\*\*3

IN

\*\*

X-COORD (M) (M)	Y-COORD (M) CONC	CONC	X-COORD (M)	Y-COORD
477428.91	3756158.76	0.00084	477429.60	
3756137.90	0.00088			
477435.75	3756113.28	0.00098	477450.46	
3756085.58	0.00118			
477447.72	3756054.80	0.00125	477438.15	
3756009.66	0.00119			
477446.69	3755992.56	0.00135	477449.77	
3755976.49	0.00139			
477447.38	3755961.10	0.00127	477425.49	
3755942.29	0.00088			
477413.52	3755920.06	0.00073	477427.20	
3755899.54	0.00080			
477508.59	3756013.76	0.00277	477609.14	
3756012.40	0.00589			
477710.36	3756013.42	0.00215	477674.80	
3756041.12	0.00476			
477675.48	3756071.22	0.00573	477675.48	
3756108.83	0.00611			
477691.89	3756162.53	0.00353	477691.89	
3756200.48	0.00263			
477692.24	3756241.52	0.00176	477878.96	
3756240.15	0.00050			
477960.35	3756240.15	0.00036	477765.76	
3756240.50	0.00096			
477832.11	3756240.50	0.00063	478076.28	
3756245.28	0.00025			
478126.21	3756244.94	0.00022	478164.51	
3756247.34	0.00020			
478190.84	3756286.66	0.00017	477645.38	
3756289.40	0.00130			
477626.23	3756295.56	0.00122	477607.08	
3756291.79	0.00125			
478215.19	3756245.99	0.00017	478246.99	
3756247.01	0.00014			
477404.68	3756224.78	0.00059	477404.00	
3756190.58	0.00065			
477565.07	3756284.29	0.00115	477666.30	
3756286.68	0.00127			
477694.68	3756286.34	0.00111	477715.20	
3756288.05	0.00098			
477737.43	3756283.60	0.00090	477778.47	
3756283.26	0.00073			
477901.24	3756286.34	0.00041	477950.49	
3756287.37	0.00033			
477980.24	3756288.73	0.00030	477449.82	
3755883.14	0.00111			
477498.04	3755795.59	0.00084	477438.88	
3755801.74	0.00076			
477492.57	3755737.45	0.00081	478028.12	
3756287.37	0.00026			
478053.09	3756289.76	0.00024	478094.47	
3756288.73	0.00021			
478126.96	3756289.76	0.00020	478207.43	
3756286.40	0.00016			

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\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

GROUP ID ZFLAG)	NETWORK OF TYPE GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL,
ALL 939.00,	1ST HIGHEST VALUE IS 0.00) DC	0.00611 AT (	477675.48, 3756108.83, 502.25,
	2ND HIGHEST VALUE IS 939.00, 0.00) DC	0.00589 AT (	477609.14, 3756012.40, 502.16,
	3RD HIGHEST VALUE IS 939.00, 0.00) DC	0.00573 AT (	477675.48, 3756071.22, 501.86,
	4TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00476 AT (	477674.80, 3756041.12, 501.14,
	5TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00353 AT (	477691.89, 3756162.53, 503.00,
	6TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00277 AT (	477508.59, 3756013.76, 503.34,
	7TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00263 AT (	477691.89, 3756200.48, 503.77,
	8TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00215 AT (	477710.36, 3756013.42, 500.90,
	9TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00176 AT (	477692.24, 3756241.52, 504.37,
	10TH HIGHEST VALUE IS 939.00, 0.00) DC	0.00139 AT (	477449.77, 3755976.49, 503.00,

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14397 Moreno Valley Business Pa \*\*\* 12/16/21

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 16:43:08

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 4 Warning Message(s)  
A Total of 2028 Informational Message(s)  
A Total of 43824 Hours Were Processed  
A Total of 978 Calm Hours Identified  
A Total of 1050 Missing Hours Identified ( 2.40 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 415 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 415 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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**APPENDIX 2.4:**  
**RISK CALCULATIONS**

Table 1  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
-0.25 to 0 Age Bin Exposure Scenario

Source  (a)	Mass GLC		Weight Fraction (d)	Contaminant  (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
	0.00140	1.40E-06			1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.8E-07	1.5E-08	5.0E+00	1.4E-03	2.8E-04					
TOTAL							1.5E-08			2.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV           Gastrointestinal System/Liver  
 REPRO          Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
 exposure duration (years)                    0.25  
 inhalation rate (L/kg-day)                    361  
 inhalation absorption factor                    1  
 averaging time (years)                        70  
 fraction of time at home                       0.85  
 age sensitivity factor (age third trimester)    10

Table 2  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
0-2 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>4</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
	0.00140	1.40E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.5E-06	3.7E-07	5.0E+00	1.4E-03	2.8E-04								
TOTAL								3.7E-07			2.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV           Gastrointestinal System/Liver  
 REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
 exposure duration (years)                    2  
 inhalation rate (L/kg-day)                    1090  
 inhalation absorption factor                    1  
 averaging time (years)                        70  
 fraction of time at home                        0.85  
 age sensitivity factor (0 to 2 years old)       10



Table 3  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
2-16 Age Bin Exposure Scenario

Source  (a)	Mass GLC		Weight Fraction (d)	Contaminant  (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
	0.00140	1.40E-06			1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	7.7E-07	3.5E-07	5.0E+00	1.4E-03	2.8E-04					
TOTAL					3.5E-07				2.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV           Gastrointestinal System/Liver  
 REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
 exposure duration (years)                    14  
 inhalation rate (L/kg-day)                   572  
 inhalation absorption factor                   1  
 averaging time (years)                        70  
 fraction of time at home                      0.72  
 age sensitivity factor (ages 2 to 16 years)    3

**Table 4**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**16-30 Age Bin Exposure Scenario**

Source ( a )	Mass GLC		Weight Fraction ( d )	Contaminant ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )
	0.00140	1.40E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.5E-07	5.4E-08	5.0E+00	1.4E-03	2.8E-04							
TOTAL								5.4E-08			2.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.05

\*\* Key to Toxicological Endpoints

RESP      Respiratory System  
CNS/PNS    Central/Peripheral Nervous System  
CV/BL      Cardiovascular/Blood System  
IMMUN      Immune System  
KIDN        Kidney  
GI/LV        Gastrointestinal System/Liver  
REPRO      Reproductive System (e.g. teratogenic and developmental effects)  
EYES        Eye irritation and/or other effects

Note:      Exposure factors used to calculate contaminant intake

exposure frequency (days/year)      350  
exposure duration (years)                14  
inhalation rate (L/kg-day)                261  
inhalation absorption factor                1  
averaging time (years)                    70  
fraction of time at home                    0.73  
age sensitivity factor (ages 16 to 30 years old)      1

**Total Risk for All Age Bins (per million)      0.79**

**Table 5**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Risks**  
**25-Year Worker Exposure Scenario**

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
		(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	RID	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(b)	(c)			(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	6.10E-03	6.10E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.6E-07	3.6E-07	5.0E+00	1.4E-03	1.2E-03							
TOTAL									3.6E-07		1.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.36										

\*\* Key to Toxicological Endpoints

Note: Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	250
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	25
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day)	230
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver		
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		

**Table 1**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**0-2 Age Bin Exposure Scenario - Construction Activity**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
	0.08570	8.57E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.7E-05	6.0E-06	5.0E+00	1.4E-03	1.7E-02								
TOTAL								6.0E-06			1.7E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

6.04

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS        Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN            Kidney  
GI/LV          Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	0.71
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
	0.00140	1.40E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	7.7E-07	3.3E-07	5.0E+00	1.4E-03	2.8E-04								
TOTAL					3.3E-07				2.8E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

0.33

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN          Immune System  
 KIDN            Kidney  
 GI/LV            Gastrointestinal System/Liver  
 REPRO          Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
 exposure duration (years)                    13.23  
 inhalation rate (L/kg-day)                   572  
 inhalation absorption factor                   1  
 averaging time (years)                        70  
 fraction of time at home                      0.72  
 age sensitivity factor (ages 2 to 16 years)    3

**Table 4**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**16-30 Age Bin Exposure Scenario**

Source ( a )	Mass GLC		Weight Fraction ( d )	Contaminant ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )
	0.00050	5.00E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-07	1.9E-08	5.0E+00	1.4E-03	1.0E-04							
TOTAL								1.9E-08			1.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.02

\*\* Key to Toxicological Endpoints

RESP           Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL         Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN          Kidney  
GI/LV         Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES          Eye irritation and/or other effects

Note:           Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

**Total Risk for All Age Bins (per million)           6.39**

**Table 5**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Risks**  
**25-Year Worker Exposure Scenario**

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
		(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	R/D	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES	
		(b)	(c)			(ug/m <sup>3</sup> ) <sup>1</sup>	(mg/kg/day) <sup>1</sup>	(mg/kg-day)	(i)	(ug/m <sup>3</sup> )	(mg/kg/day)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
1	Diesel Particulates	2.21E-01	2.21E-04	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.6E-05	3.9E-07	5.0E+00	1.4E-03	4.4E-02								
TOTAL									3.9E-07		4.4E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
									0.39											

\*\* Key to Toxicological Endpoints

Note: Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	260
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	0.71
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day)	230
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver		
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		

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