



## Memo

To: H.P. Kang, City of Hemet  
CC: John Rowland and Lucy Martinez, S2A Modular, and Kent Norton, MIG  
From: Chris Dugan and Phil Gleason  
Date: June 19, 2020  
**SUBJECT: Air Quality, Greenhouse Gas, and Energy Analyses for S2A Modular Factory Project**

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MIG, Inc. (MIG) has prepared this memorandum at the request of the City of Hemet. This memorandum estimates the potential air quality and greenhouse gas (GHG) emissions, as well as potential energy consumption, for the proposed S2A Modular Factory Project (proposed Project) and evaluates project emissions against applicable South Coast Air Quality Management District (SCAQMD)-recommended California Environmental Quality Act (CEQA) significance thresholds.

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### PROJECT DESCRIPTION

The proposed Project would involve the development of a new, zero-net energy (ZNE) Tesla-powered modular smart home factory with a showroom and model display area on approximately 32.1 acres. The Project site is located at 1321 and 1255 North State Street, between West Esplanade Avenue and Crows Nest Place, in the City of Hemet. The site encompasses three parcels (APN# 439-030-009, 439-030-010, & 439-040-023). The Project site is currently undeveloped and is bordered by light industrial land uses to the north, undeveloped land to the east, a storage facility to the southeast, the Desert Sky RV Park to the southwest, and single-family, ranch-style homes to the west.

Construction of the proposed Project would take place over approximately one year, with development occurring over two, distinct phases:

- **Phase 1 (August 2020 to January 2021; 6 months)**
  - Building A (4,959 square feet for offices / showroom)
  - Building B (101,355 square feet for residential plant)
  - Building E (12,000 square feet for hemp dry wall mud research and development)
  - Two (2) showroom example modular homes
- **Phase 2 (April 2021 to August 2021; 5 months)**
  - Building C (101,355 square feet for commercial plant)
  - Building D (12,000 square feet for hemp stucco/panels research and development)
  - Three (3) showroom example modular homes

In total, there would be 231,669 square feet of building space at the site once Project construction has been completed. Please see Attachment 1 for the Project's plot plan.

Although the site is approximately 32.1 acres, only 21 acres of the site would be disturbed during earthmoving activities. Cut and fill would be balanced on site (i.e., no import or export of soils) (SAKE Engineers, 2020). Construction of the proposed Project would also include approximately 483,586 square feet of hardscape (e.g., roads and parking).

As described previously, the proposed Project would operate as a ZNE facility. Solar panels located east of Building C and between Building B and the modular home village would offset the electricity consumption on-site. On-site equipment (e.g., forklifts and golf cart used to transport merchandise and staff/customers, respectively) would be all electric. Modular homes would be exported from the site using Tesla-powered trucks (i.e., fully electric; powered by a rechargeable battery), and the facility would include two Tesla truck charging stations and 10 charging stations for cars. Operational activities at the facility would generally take place from 7AM to 5PM on a daily basis, with the showroom potentially being open slightly later to accommodate clients/customers.

The proposed Project's air quality, GHG, and energy impacts are evaluated below.

## AIR QUALITY ANALYSIS

The proposed Project is located within the South Coast Air Basin (Basin), where efforts to attain state and federal air quality standards are governed by the SCAQMD. Both the State of California and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants (known as criteria pollutants). These pollutants include ozone (O<sub>3</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), inhalable particulate matter with a diameter of 10 microns or less (PM<sub>10</sub>), fine particulate matter with a diameter of 2.5 microns or less (PM<sub>2.5</sub>), and lead (Pb). The state has also established AAQS for additional pollutants. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. Where the state and federal standards differ, California AAQS (CAAQS) are more stringent than the national AAQS (NAAQS). The U.S. Environmental Protection Agency (U.S. EPA), California Air Resources Board (CARB), and the SCAQMD assess the air quality of an area by measuring and monitoring the amount of pollutants in the ambient air and comparing pollutant levels against NAAQS and CAAQS. Based on these comparisons, regions are classified into one of the following categories:

- **Attainment.** A region is "in attainment" if monitoring shows ambient concentrations of a specific pollutant are less than or equal to NAAQS or CAAQS. In addition, an area that has been re-designated from nonattainment to attainment is classified as a "maintenance area" for 10 years to ensure that the air quality improvements are sustained.
- **Nonattainment.** If the NAAQS or CAAQS are exceeded for a pollutant, the region is designated as nonattainment for that pollutant. It is important to note that some NAAQS and CAAQS require multiple exceedances of the standard in order for a region to be classified as nonattainment. Federal and state laws require nonattainment areas to develop strategies, plans, and control measures to reduce pollutant concentrations to levels that meet, or attain, standards.
- **Unclassified.** An area is unclassified if the ambient air monitoring data are incomplete and do not support a designation of attainment or nonattainment.

Air pollution levels are measured at monitoring stations located throughout the Basin. Table 1, *South Coast Air Basin Attainment Status*, summarizes the Basin's attainment status for the NAAQS and CAAQS.

<b>Table 1: South Coast Air Basin Attainment Status</b>		
<b>Pollutant</b>	<b>Attainment Status<sup>(A)</sup></b>	
	<b>NAAQS</b>	<b>CAAQS</b>
O <sub>3</sub> (1-hr)	Nonattainment	Nonattainment
O <sub>3</sub> (8-hr)	Nonattainment	Nonattainment
PM <sub>10</sub> (24-hr and Annual)	Attainment	Nonattainment
PM <sub>2.5</sub> (24-hr)	Nonattainment	--
PM <sub>2.5</sub> (Annual)	Nonattainment	Nonattainment
CO	Attainment (Maintenance)	Attainment
NO <sub>2</sub> (1-hr)	Attainment	Attainment
NO <sub>2</sub> (Annual)	Attainment (Maintenance)	Attainment
SO <sub>2</sub>	Attainment	Attainment
Lead	Partial Nonattainment	Attainment
Visibility Reducing Particles	--	Unclassified
SO <sub>4</sub>	--	Attainment
H <sub>2</sub> S	--	Attainment

Source: SCAQMD, 2018  
 (A) This table summarizes the Basin's attainments status for the NAAQS and CAAQS (as of September 2018). This table does not prevent comprehensive information regarding the CAAQS and NAAQS. Each CAAQS and NAAQS has its own averaging time, standard unit of measurement, measurement method, and statistical test for determining if a specific standard has been exceeded. Refer to the table source for detailed information on the NAAQS and CAAQS.

The proposed Project would generate both short-term construction emissions and long-term operational emissions. The SCAQMD adopts rules that establish permissible air pollutant emissions levels for a variety of business, processes, operations, and products to subject to Federal and State air quality requirements. In general, the proposed Project and its potential emissions sources would be subject to the following State and SCAQMD rules:

- **SCAQMD Rule 401 (Visible Emissions)** prohibits discharge into the atmosphere from any single source of emission for any contaminant for a period or periods aggregating more than three minutes in any one hour that is as dark or darker in shade than that designated as No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines.
- **SCAQMD Rule 402 (Nuisance)** prohibits discharges of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
- **SCAQMD Rule 403 (Fugitive Dust)** prohibits emissions of fugitive dust from any grading activity, storage pile, or other disturbed surface area if it crosses the project property line or if emissions caused by vehicle movement cause substantial impairment of visibility (defined as exceeding 20 percent capacity in the air). Rule 403 requires the implementation of Best Available Control Measures and includes additional provisions for projects disturbing more than five acres and those disturbing more than fifty acres.
- **SCAQMD Rule 1108 (Cutback Asphalt)** prohibits the sale or use of any cutback asphalt containing more than 0.5 percent by volume organic compounds which evaporate at 260°C (500°F) or lower.
- **Rule 1113 (Architectural Coatings)** establishes maximum concentrations of VOCs in paints and other applications and establishes the thresholds for low-VOC coatings.

- **Rule 1143 (Consumer Paint Thinners and Multi-Purpose Solvents)** prohibits the supply, sale, manufacture, blend, package or repackage of any consumer paint thinner or multi-purpose solvent for use in the District unless consumer paint thinners or other multi-purpose solvents comply with applicable VOC content limits.

These SCAQMD rules would serve to limit and control the proposed Project's potential to emit air pollutants. As described in more detail below, the proposed Project would not generate short-term or long-term emissions that exceed SCAQMD-recommended pollutant thresholds.

### ***Regional Construction and Operational Emissions***

The proposed Project involves the construction of a new, Tesla-powered modular smart home factory. Phases 1 and 2 would involve the development of approximately 118,314 and 113,355 square feet of building space, respectively. Project construction would also involve paving of approximately 483,586 square feet of asphalt / other hardscape surfaces. For the purposes of this analysis, it was assumed 80% of paving would occur during Phase 1 (i.e., 386,869 square feet) and the remaining 20% would occur during Phase 2 (i.e., 96,717 square feet). Construction activities for both phases would include grading, vertical building development, paving, and architectural coating work. It is assumed site preparation work (e.g., removal of vegetation) would take place during the grading phases.

The proposed Project's potential construction emissions were estimated using the California Emissions Estimator Model (CalEEMod), Version (V.) 2016.3.2. Construction phase and duration and the type and amount of equipment used during construction were generated using CalEEMod default assumptions and modified as necessary to reflect the following project-specific context, information, and details:

- For Phase 1, the duration of the grading, building construction, paving and architectural coating phases were reduced to reflect a more intensive development timeline envisioned by the Project Applicant than assumed by CalEEMod defaults. The quantity and runtime of heavy-duty off-road equipment (e.g., loaders, excavators, forklifts) were scaled upward to reflect additional equipment operation during the compressed construction schedule. Similarly, construction worker and vendor trips were scaled upwards, too.
- For Phase 2, the duration of the building construction phase was reduced to reflect a more intensive development timeline envisioned by the Project Applicant than assumed by CalEEMod defaults. Consistent with the approach described for Phase 1, off-road equipment as well as worker and vendor trips were scaled upward to reflect a more intense schedule.
- Fugitive dust control measures were incorporated into the model consistent with requirements contained in SCAQMD Rule 403, Fugitive Dust.
- Limitations for VOC content of architectural coatings were incorporated into the model consistent with the requirements contained in SCAQMD Rule 1113, Architectural Coatings.

The proposed Project's maximum daily unmitigated construction emissions are shown in Table 2, *Unmitigated Maximum Daily Regional Construction Emissions*. Please refer to Attachment 2 for CalEEMod output files and detailed construction emissions assumptions.

<b>Table 2: Unmitigated Maximum Daily Regional Construction Emissions</b>						
<b>Construction Season</b>	<b>Maximum Pollutant Emissions (Pounds Per Day)</b>					
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Phase 1</b>						
Summer 2020	11.7	96.7	91.8	0.2	13.9	6.4
Winter 2020	11.7	96.6	87.2	0.2	13.9	6.4
Summer 2021	66.4	23.7	28.8	<0.0 <sup>(A)</sup>	0.2	1.3
Winter 2021	66.4	23.7	28.4	<0.0 <sup>(A)</sup>	1.9	1.3
<b>Phase 2</b>						
Summer 2021	27.9	73.0	71.4	0.2	7.4	4.3
Winter 2021	27.9	72.9	69.6	0.2	7.4	4.3
<b>SCAQMD Regional Threshold<sup>(A)</sup></b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Source: MIG, 2020 (See Attachment 2) and SCAQMD, 2020. Notes: (A) <0.0 does not mean zero; rather, it means less than 0.05, but greater than zero.						

As shown in Table 2, the proposed Project’s maximum daily, unmitigated, construction criteria air pollutant emissions would be well below the SCAQMD’s recommended regional pollutant thresholds. Project construction, therefore, would not generate criteria air pollutant emissions levels that exceed SCAQMD regional CEQA thresholds.

Once operational, the proposed Project would generate long-term emissions from the following sources:

- **“Area” Sources.** The proposed Project would generate emissions from small area sources, including landscaping equipment, the use of consumer products (e.g., paints, cleaners, and fertilizers) that result in the evaporation of chemicals into the atmosphere during product use.
- **Mobile Sources.** The proposed Project would generate emissions from vehicles traveling to and from the project site.

The proposed Project’s operational emissions were also estimated using CalEEMod, V. 2016.3.2. The modeling is based on the project’s first full year of operations (assumed to be 2021), using default data assumptions generated by CalEEMod, modified as necessary to reflect the following project-specific context, information, and details:

- Project-specific land use information (i.e., lot acreage, building square footage, etc.) was applied to the model; and
- CalEEMod default weekday trip generation rates were replaced with the trip generation information (983 trips per day) contained in the Traffic Impact Analysis (TIA) prepared for the proposed Project (Ganddini Group, Inc. 2019).

The proposed Project’s maximum daily unmitigated operational emissions are shown in Table 3, *Unmitigated Maximum Daily Regional Operational Emissions*. Please refer to Attachment 2 for CalEEMod output files and detailed construction emissions assumptions.

Emissions Source	Maximum Daily Pollutant Emission (Pounds Per Day) <sup>(A)</sup>					
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Sources	5.4	<0.0 <sup>(B)</sup>	0.1	<0.0 <sup>(B)</sup>	<0.0 <sup>(B)</sup>	<0.0 <sup>(B)</sup>
Energy Demand <sup>(C)</sup>	0.0	0.0	0.0	0.0	0.0	0.0
Mobile Sources	2.0	17.1	29.4	0.1	8.8	2.5
Total Daily Emissions <sup>(D)</sup>	7.4	17.1	29.5	0.1	8.8	2.5
<b>SCAQMD Regional Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: MIG, 2020 (See Attachment 2) and SCAQMD, 2020.

(A) Emissions presented are worst-case emissions and may reflect summer or winter emissions levels. Maximum daily ROG, CO, SO<sub>x</sub> emissions occur during the summer. Maximum daily NO<sub>x</sub> emissions occur during the winter. In general, due to rounding, there is no difference between summer and winter PM<sub>10</sub> and PM<sub>2.5</sub> emissions levels for the purposes of this table.

(B) “<0.0” does not mean emissions are zero; rather, it means emissions are less than 0.01 but greater than 0.

(C) The proposed Project would be a ZNE facility and therefore would offset any emissions associated with energy consumption through the generation of onsite renewable electricity.

(D) Totals may not equal due to rounding.

As shown in Table 3, the proposed Project’s maximum daily, unmitigated, operational criteria air pollutant emissions would be well below the SCAQMD’s-recommended regional pollutant thresholds. Project operation, therefore, would not generate criteria air pollutant emissions levels that exceed SCAQMD regional CEQA thresholds. This impact would be less than significant.

**Localized Construction and Operational Emissions**

In addition to regional CEQA thresholds, the SCAQMD has also developed Local Significance Thresholds (LSTs) that represent the maximum emissions from a project that are expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standards, which would result in significant adverse localized air quality impacts.

The project’s maximum daily construction emissions are compared against the SCAQMD’s-recommended LSTs thresholds in Table 4, *Local Significance Threshold (LST) Construction Analysis*. Consistent with the SCAQMD’s LST methodology, the emissions included in the construction LST analysis are on-site emissions only, and the LST against which these on-site emissions are compared are based on the project size, in acres. The LST thresholds are for source receptor area (SRA) 28, the SRA in which the proposed Project is located, and are based on a receptor distance of 25 meters (82 feet), the closest LST receptor distance thresholds recommended for use by the SCAQMD. The construction LSTs are provided for 1-, 2-, and 5-acre project sizes. Although the proposed Project would be much larger than 5 acres, this analysis conservatively uses the 5-acre LST values for evaluation purposes.

<b>Table 4: Local Significance Threshold Construction Analysis</b>				
<b>Construction Phase<sup>(A, B)</sup></b>	<b>Maximum Pollutant Emissions (Pounds Per Day)</b>			
	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Phase 1</b>				
Grading 2020	71.5	45.5	7.9	4.8
Building Construction 2020	65.4	57.3	3.8	3.6
Paving 2021	23.6	26.7	1.2	1.1
Architectural Coating 2021	3.1	3.6	0.2	0.2
<b>Phase 2</b>				
Grading 2021	24.7	15.9	3.7	2.4
Building Construction 2021	61.6	58.6	3.4	3.2
Paving 2021	10.8	12.3	0.6	0.5
Architectural Coating 2021	1.5	1.8	0.1	0.1
<b>SCAQMD LST Threshold<sup>(C)</sup></b>	<b>371</b>	<b>1,965</b>	<b>13</b>	<b>8</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Source: MIG, 2020 (See Attachment 2) and SCAQMD, 2009.				
(A) Emissions estimated using CalEEMod, v. 2016.3.2. Estimates are based on default model assumptions unless otherwise noted in this document.				
(B) Emissions presented are worst-case emissions and may reflect summer or winter emission levels. In general, due to rounding, there is no difference between summer and winter emission levels for the purposes of this table.				
(C) The LSTs are based on 5.0-acre project size and 25-meter receptor distance.				

As shown in Table 4, the proposed Project's construction emissions would not exceed the SCAQMD's recommended construction LSTs. Project construction, therefore, would not generate criteria air pollutant emissions levels that exceed SCAQMD local CEQA thresholds.

Typically, operations related LSTs become a concern when there are substantial on-site stationary or on-site mobile sources (e.g., heavy duty or idling trucks) that could impact surrounding receptors. This is not the case for the proposed Project, however, since the Project would utilize all electric equipment, including Tesla-powered trucks for product delivery. As such, an operational LST analysis has not been conducted for the proposed Project.

### **Sensitive Air Quality Receptors/Health Risks**

The SCAQMD identifies sensitive receptors as populations more susceptible to the effects of air pollution than the general population. Some people are more affected by air pollution than others. Sensitive air quality receptors include specific subsets of the general population that are susceptible to poor air quality and the potential adverse health effects associated with poor air quality. Both CARB and the SCAQMD consider residences, schools, parks and playgrounds, childcare centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes to be sensitive air quality land uses and receptors (SCAQMD 2017a; CARB 2005). The potential sensitive air quality receptors adjacent or in close proximity to the perimeter of the Project area (i.e., within 1,000 feet) include:

- The single-family, ranch-style homes immediately west of the Project site;
- Residences in the Desert Sky RV Park, immediately southwest of the Project site; and

- Park receptors at the Searl Youth Sports Park, approximately 915 feet southeast of the Project site.

In addition to criteria air pollutants, the U.S. EPA and CARB have classified certain pollutants as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants by the U.S. EPA and CARB, respectively. These pollutants can cause severe health effects at very low concentrations (non-cancer effects), and many are suspected or confirmed carcinogens (i.e., can cause cancer). People exposed to HAPs/TACs at sufficient concentrations and durations may have an increased chance of getting cancer or experiencing other serious health effects. These health effects can include damage to the immune system, as well as neurological, reproductive (e.g., reduced fertility), developmental, respiratory, and/or other health problems.

A portion of the PM<sub>10</sub> and PM<sub>2.5</sub> emissions generated during construction of the project would be diesel particulate matter, or DPM, a known TAC. The proposed Project's construction activities would not expose adjacent residential receptors to substantial levels of DPM that would pose a substantial adverse health risk for several reasons. First, the proposed Project does not involve substantial earthmoving or grading activities that would require large amounts of heavy-duty equipment associated with the highest DPM emissions. Second, the majority of Project construction would be located toward the middle-to-northern portions of the Project site, which would give pollutants additional time and space to disperse with the prevailing winds that are generally from the north-northwest and south-southeast (i.e., toward land uses that are not considered to be sensitive). Finally, potential long-term adverse health risks from DPM are evaluated assuming a constant exposure to emissions over a 70-year lifetime, 24 hours a day, seven days a week, with increased risks generally associated with increased proximity to emissions sources. Since construction activities would only generate DPM emissions on an intermittent, short-term basis (i.e., approximately one year), DPM emissions from construction activities would be unlikely to result in adverse health effects to existing sensitive receptors that exceed the SCAQMD's significance criteria.<sup>1</sup> This impact would be less than significant.

#### ***Conflict with or Obstruct Implementation of the Applicable Air Quality Plan***

A project that conflicts with or obstructs the implementation of the South Coast Air Quality Management District's (SCAQMD) South Coast Air Basin 2016 Air Quality Management Plan (AQMP) could hinder implementation of the AQMP, delay efforts to meet attainment deadlines, and/or interfere with SCAQMD efforts to maintain compliance with, and attainment of, applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the SCAQMD *CEQA Air Quality Handbook*, consistency with the AQMP is affirmed if the project (SCAQMD, 1993):

- 1) Is consistent with the growth assumptions in the AQMP; and
- 2) Does not increase the frequency or severity of an air quality standards violation or cause a new one.

The proposed Project would induce employment growth; however, the number of jobs added to the City would be well within the growth assumptions for Hemet accounted for in the 2016 RTP/SCS (i.e., the 2016 RTP/SCS accounted for the grow of 24,500 new jobs in Hemet between 2012 and 2040; SCAG, 2016). Therefore, it would not conflict with the first consistency criterion. As described in the preceding analysis, the proposed Project would not exceed the

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<sup>1</sup> The SCAQMD has established the following thresholds of significance for projects that generate TAC emissions: Maximum Incremental Cancer Risk  $\geq 10$  in 1 million; Cancer Burden  $> 0.5$  excess cancer cases (in areas  $\geq 1$  in 1 million); Chronic & Acute Hazard Index  $\geq 1.0$  (project increment) (SCAQMD, 2019).

construction or operational air quality thresholds maintained by the SCAQMD. Accordingly, the proposed Project would not conflict with or obstruct implementation of the SCAQMD 2016 AQMP (SCAQMD, 2017b). This impact would be less than significant.

### **Odors**

According to the SCAQMD CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). Odors are typically associated with industrial projects involving the use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes, as well as sewage treatment facilities and landfills. Implementation of the proposed Project may result in short-term odors during construction associated with fueling and fuel combustion; however, these odors would be quick to disperse and would not affect a substantial number of people. This impact would be less than significant.

## **GHG ANALYSIS**

Gases that trap heat in the atmosphere and affect regulation of the Earth's temperature are known as GHGs. GHG that contribute to climate change are a different type of pollutant than criteria or hazardous air pollutants because climate change is global in scale, both in terms of causes and effects. Some GHG are emitted to the atmosphere naturally by biological and geological processes such as evaporation (water vapor), aerobic respiration (carbon dioxide), and off-gassing from low oxygen environments such as swamps or exposed permafrost (methane); however, GHG emissions from human activities such as fuel combustion (e.g., carbon dioxide) and refrigerants use (e.g., hydrofluorocarbons) significantly contribute to overall GHG concentrations in the atmosphere, climate regulation, and global climate change. The 1997 United Nations' Kyoto Protocol international treaty set targets for reductions in emissions of four specific GHGs – carbon dioxide, methane, nitrous oxide, and sulfur hexafluoride – and two groups of gases – hydrofluorocarbons and perfluorocarbons. These GHG are the primary GHG emitted into the atmosphere by human activities. The six most common GHG's are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride, hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs).

GHG emissions from human activities contribute to overall GHG concentrations in the atmosphere and the corresponding effects of global climate change (e.g., rising temperatures, increased severe weather events such as drought and flooding). GHGs can remain in the atmosphere long after they are emitted. The potential for a GHG to absorb and trap heat in the atmosphere is considered its global warming potential (GWP). The reference gas for measuring GWP is CO<sub>2</sub>, which has a GWP of one. By comparison, CH<sub>4</sub> has a GWP of 25, which means that one molecule of CH<sub>4</sub> has 25 times the effect on global warming as one molecule of CO<sub>2</sub>. Multiplying the estimated emissions for non-CO<sub>2</sub> GHGs by their GWP determines their carbon dioxide equivalent (CO<sub>2</sub>e), which enables a project's combined global warming potential to be expressed in terms of mass CO<sub>2</sub> emissions (referred to as CO<sub>2</sub> equivalents, or CO<sub>2</sub>e).

In order to provide guidance to local lead agencies on determining the significance of GHG emissions in their CEQA documents, the SCAQMD convened the first GHG Significance Threshold Working Group (Working Group) meeting on April 30, 2008. To date, the Working Group has convened a total of 15 times, with the last meeting taking place on September 28, 2010. Based on the last Working Group meeting, the SCAQMD identified an interim, tiered approach for evaluating GHG emissions intent on capturing 90 percent of development projects where the SCAQMD is not the lead agency. The following describes the basic structure of the SCAQMD's tiered, interim GHG significance thresholds (SCAQMD, 2010):

- Tier 1 consists of evaluating whether or not the project qualifies for applicable CEQA exemptions.
- Tier 2 consists of determining whether or not a project is consistent with a greenhouse gas reduction plan. If a project is consistent with a greenhouse gas reduction plan, it would not have a significant impact.
- Tier 3 consists of using screening values at the discretion of the Lead Agency; however, the Lead Agency should be consistent for all projects within its jurisdiction. The following thresholds were proposed for consideration:
  - 3,000 MTCO<sub>2</sub>e per year for all land use types; or
  - 3,500 MTCO<sub>2</sub>e per year for residential; 1,400 MTCO<sub>2</sub>e per year for commercial; 3,000 MTCO<sub>2</sub>e per year for mixed use projects.
- Tier 4 has three options for projects that exceed the screening values identified in Tier 3:
  - Option 1: Reduce emissions from business-as-usual by a certain percentage (currently undefined); or
  - Option 2: Early implementation of applicable AB 32 Scoping Measures; or
  - Option 3: For plan-level analyses, analyze a project's emissions against an efficiency value of 6.6 MTCO<sub>2</sub>e/year/service population by 2020 and 4.1 MTCO<sub>2</sub>e/year/service population by 2035. For project-level analyses, analyze a project's emissions against an efficiency value of 4.8 and 3.0 MTCO<sub>2</sub>e/year/service population for the 2020 and 2035 calendar years, respectively.

This analysis conservatively uses the SCAQMD's interim Tier 3 GHG threshold to evaluate the proposed Project's GHG emissions levels.

### **GHG Emissions**

The proposed Project would generate GHG emission from both short-term construction and long-term operational activities. Construction activities would generate GHG emissions primarily from equipment fuel combustion as well as worker, vendor, and haul trips to and from the Project site during demolition, site preparation, grading, building construction, paving, and architectural coating activities. Construction activities would cease to emit GHG upon completion, unlike operational emissions that would be continuous year after year until the project is decommissioned. The SCAQMD recommends amortizing construction GHG emissions over a 30-year period and including with operational emissions estimates. This normalizes construction emissions so that they can be grouped with operational emissions and compared to appropriate thresholds, plans, etc. Once operational, the proposed Project would generate GHG emissions from area, mobile, water/wastewater, and solid waste sources. The proposed Project's construction and operational emissions were estimated CalEEMod, V. 2016.3.2, using the same default assumptions and Project-specific variables applied to the air quality emissions estimates.<sup>2</sup> The proposed Project's total GHG emissions are shown in Table 5, *Project Greenhouse Gas Emissions*.

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<sup>2</sup> CalEEMod does not estimate N<sub>2</sub>O emissions; however, in 2016, statewide CO<sub>2</sub> and N<sub>2</sub>O emissions for the on-road transportation sector (light duty gasoline vehicles) were 115.4 and 0.005 million metric tons, respectively (N<sub>2</sub>O emissions, therefore, would be equal to 0.004% of CO<sub>2</sub> emissions for this sector). N<sub>2</sub>O emissions, therefore, are not anticipated to increase the proposed Project's GHG emissions estimates by more than 1% overall and would not materially change this GHG evaluation.

<b>Table 5: Project Greenhouse Gas Emissions</b>	
<b>GHG Emissions Source</b>	<b>GHG Emissions (Metric Tons Per Year)</b>
Area	<0.0 <sup>(A)</sup>
Energy	0.0 <sup>(B)</sup>
Mobile	1,834.7
Solid Waste	144.5
Water/Wastewater	296.0
Construction <sup>(B)</sup>	50.3
Total <sup>(C)</sup>	2,325.5
<b>SCAQMD Tier 3 Screening Threshold</b>	<b>3,000</b>
<b>SCAQMD Tier 3 Threshold Exceeded?</b>	<b>No</b>
Source: MIG 2020 (See Attachment 2) and SCAQMD, 2019. (A) <0.0 does not mean emissions are zero; rather, it means emissions are greater than 0.00, but less than 0.1. (B) Construction emissions values from Phase 1 and Phase 2 have been summed and averaged over a 30-year assumed project lifetime. (C) Totals may not equal due to rounding.	

As shown in Table 5, the proposed Project’s potential increase in GHG emissions would be below the SCAQMD’s recommended GHG emissions thresholds, and would likely be lower than the 2,325.5 MTCO<sub>2</sub>e/yr estimate for a few of reasons. First, the imbedded GHG emissions associated with water/wastewater transport and treatment are based on Southern California Edison’s GHG intensity values from 2012. Due to statewide mandates to increase the amount of electricity supplied to consumers from renewable resources, the GHG emissions associated with this source would be lower. Second, the mobile source emissions estimate does not take into account that the Project would utilize Tesla-powered trucks to deliver the modular homes to their final destination. The use of all-electric trucks fueled (i.e., charged) at a ZNE facility in lieu of diesel-powered trucks would reduce the estimated GHG emissions from this source. Finally, the proposed Project would have the added environmental benefit of furthering the implementation of technology that is necessary for the state to meet future GHG emission reduction goals. The modular homes produced at the facility would be built around Tesla Powerwall Technology, which would make each unit electrically self-sustainable. Each structure, once developed, would be connected to the electrical grid as a backup power source, but would otherwise rely on renewable energy generated onsite. In addition, not only would the modular homes be more energy efficient than homes of standard construction, they would also be produced in a facility that is ZNE, thereby reducing the upstream GHG intensity of development as well. The proposed Project would not generate GHG emissions that exceed SCAQMD CEQA thresholds, and would support future GHG-emission reduction goals at the state level. This impact would be less than significant.

**Plan Consistency**

The proposed Project would not conflict with CARB’s Scoping Plan or the Southern California Association of Governments (SCAG) 2016 RTP/SCS. Nearly all the specific measures identified in the 2017 Climate Change Scoping Plan would be implemented at the state level, with CARB and/or another state or regional agency having the primary responsibility for achieving required GHG reductions. The proposed Project, therefore, would not directly conflict with any of the specific measure identified in the 2017 Climate Change Scoping Plan. Similarly, the proposed Project would not conflict with the SCAG 2016 RTP/SCS, because it is within the growth assumptions of the 2016 RTP/SCS, would utilize zero-emission Tesla-trucks to deliver the

modular homes, and would provide on-site electric vehicle (EV) charging stations to help facilitate and encourage employees and customers/clients to buy EVs, which would help reduce per capita GHG emissions associated with automobile use. The proposed Project would also facilitate the construction, distribution, and use of extremely energy efficient homes. This impact would be less than significant.

## ENERGY ANALYSIS

The proposed Project consists of the development of a new, ZNE facility that would manufacture modular smart homes. Construction activities associated with the proposed Project would require the use of heavy-duty, off-road equipment and construction-related vehicle trips that would combust fuel, primarily diesel and gasoline. Heavy-duty construction equipment would be required to comply with CARB's airborne toxic control measures, which restrict heavy-duty diesel vehicle idling to five minutes. Off-road, heavy-duty equipment (e.g., excavators, loaders, etc.) are anticipated to consume approximately 82,073 gallons of diesel across the two construction phases, and on-road vehicle trips (e.g., construction worker commutes and vendor deliveries) are anticipated to consume 40,280 and 25,294 gallons of gasoline and diesel, respectively (see Attachment 3). Total petroleum fuel consumption during Project construction is estimated to be 40,280 and 107,367 gallons of gasoline and diesel, respectively.

Once operational, the proposed Project would consume energy for vehicle trips (worker commutes and clients/customers), electricity and natural gas usage, and water and wastewater conveyance. As estimated using CalEEMod, the proposed Project would consume approximately 7.5 million British thermal units (MMBTU) of natural gas and 2,351 megawatt-hours (MWh) of electricity per year. These estimates are considered to be particularly conservative, since the Project would be designed to ZNE standards, which typically involves substantially reducing, if not eliminating, natural gas and increasing the efficiency of electricity consuming building systems and equipment. The proposed Project is also estimated to result in a total of approximately 4.0 million annual vehicle miles travelled (VMT) which, based on the average fleet mix and gasoline and diesel fuel fleet efficiency in the Basin, would consume approximately 139,053 and 37,011 gallons of gasoline and diesel, respectively.<sup>3</sup>

Electricity, natural gas, and gasoline fuel consumption are energy sources necessary to operate and maintain the proposed Project in a safe manner. Lighting is essential for safety and security and natural gas consumption is often needed for heating, cooking, and other temperature-controlled activities. As described previously, the proposed Project would be a ZNE facility, which would mean it would implement numerous energy efficiency measures (e.g., heat pump water heaters) and off-site its annual energy consumption through the generation of on-site renewable energy. For mobile sources, the proposed Project would utilize six, Tesla-powered trucks to deliver the modular homes and include 10 on-site EV charging stations. Finally, the modular homes sold at the proposed facility could help reduce energy consumption in new residential developments, since they do not require as much heavy-duty off-road construction equipment to develop at a site and are designed to achieve energy efficiency. For these

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<sup>3</sup> According to the Board of Equalization (BOE), statewide taxable sales figures indicate a total of 15,584 million gallons of gasoline fuel were sold in 2017 (CEC, 2019; CDFTA 2018). Although exact estimates are not available by County, retail fuel outlet survey data indicates Riverside County accounted for approximately 6.8% and 7.4% of total statewide gasoline and diesel sales, respectively (CEC, 2019). Based on CARB's EMFAC2017 web database, the overall average fuel economy for all gasoline and diesel vehicles in the Riverside County (South Coast Air Basin) in year 2021 would be 26.4 and 9.7 miles per gallon, respectively.

reasons, the proposed Project would not result in the wasteful, inefficient, or unnecessary use of energy resources. This impact would be less than significant.

The proposed Project would not conflict with or obstruct a state or local plan adopted for the purposes of increasing the amount of renewable energy or energy efficiency. As discussed above, the proposed Project would meet ZNE standards (exceeding that mandated through by the State through the CalGreen Code) and would implement numerous green features, such as on-site renewable energy generation and the use of Tesla-powered trucks to deliver the modular homes. It would also result in the production, distribution, and use of homes that are more energy efficiency than that required by the CalGreen Code, too. The proposed Project would not conflict with or obstruct a state or local plan for renewable energy. This impact would be less than significant.

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## CONCLUSION

As described in this memo, the proposed Project would not exceed any applicable SCAQMD-recommended CEQA thresholds of significance and is consistent with all applicable air quality, GHG, and energy plans, policies and regulations adopted for the purposes of reducing air quality impacts, GHG emissions, and/or energy consumption impacts. The proposed Project, therefore, would not result in substantial adverse air quality, GHG, or energy-related effects on the environment.

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## REFERENCES

The following references were used to prepare this memorandum:

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- California Department of Tax and Fee Administration (CDTFA) 2018. Net Taxable Gasoline Gallons 2008 – 2017. Sacramento, CA. 2018. Available online at:
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- \_\_\_\_\_. 2010. Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15. Diamond Bar, CA. September 28, 2010. Available online at: <[http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf)>
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Southern California Association of Governments (SCAG) 2016. *2016-2040 RTP/SCS Demographics and Growth Forecast*. April 2016.

## CD / PTG

**Attachment 1**  
**SAKE Engineers, Inc. Plot Plan (April 29, 2020)**

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# CITY OF HEMET PLOT PLAN

LOT 5 AND PORTION OF LOT 4 OF MESA TERRACE TRACT, IN THE CITY OF HEMET, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 8 PAGE 46 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

SAKE ENGINEERS, INC.

AUGUST 2019

### ZONING AND LAND USE:

EXIST. ZONING \_\_\_\_\_ COMMERCIAL-MANUFACTURING  
 PROP. ZONING \_\_\_\_\_ COMMERCIAL-MANUFACTURING  
 EXIST. LAND USE \_\_\_\_\_ VACANT  
 PROP. LAND USE \_\_\_\_\_ COMMERCIAL-MANUFACTURING

### ASSESSORS PARCEL NO.:

439-030-009, 439-030-010, 439-040-023

### TOTAL ACREAGE:

TOTAL ACREAGE (GROSS) \_\_\_\_\_ 32.1 AC.  
 DISTURBED AREA \_\_\_\_\_ 21 AC.  
 IMPERVIOUS AREA \_\_\_\_\_ 16.42 AC.  
 PERVIOUS AREA \_\_\_\_\_ 15.68 AC.  
 TOTAL NO. OF PARKING \_\_\_\_\_ 700

### EASEMENT NOTES:

- DECLARATION OF DEDICATION PER INST. NO. 136701 REC. 12/06/1985 O.R.
- CL OF 10' WIDE EASEMENT IN FAVOR OF SO. CAL EDISON CO. PER INST. NO. 106260 REC. 10/28/1986. O.R.
- EASEMENT IN FAVOR OF SO. CAL EDISON CO. PER INST. NO. 44421 REC. 05/29/1987. O.R.
- 5' WIDE EASEMENT FOR WATER PIPE LINE AND UTILITIES
- AN EASEMENT IN FAVOR OF CALIFORNIA WATER AND TELEPHONE CO. PER BK. 1804 PG 231 IS NOT PLOTTABLE FROM THE RECORD.
- EASEMENT IN FAVOR OF EASTERN MUNICIPAL WATER DISTRICT PER BK. 3726 PG.565-568. O.R.
- EASEMENT IN FAVOR OF EASTERN MUNICIPAL WATER DISTRICT PER INST. 108484 REC. 06/11/1981.

### BUILDING SQUARE FOOTAGE

BUILDING "A" \_\_\_\_\_ 4,959 S.F.  
 BUILDING "B" \_\_\_\_\_ 101,355 S.F.  
 BUILDING "C" \_\_\_\_\_ 101,355 S.F.  
 BUILDING "D" \_\_\_\_\_ 12,000 S.F.  
 BUILDING "E" \_\_\_\_\_ 12,000 S.F.  
 TOTAL SQUARE FOOTAGE \_\_\_\_\_ 231,669 S.F.

### BUILDING USE

BUILDING "A" \_\_\_\_\_ OFFICES/SHOWROOM  
 BUILDING "B" \_\_\_\_\_ OFFICES/SHOWROOM  
 BUILDING "C" \_\_\_\_\_ OFFICES  
 BUILDING "D" \_\_\_\_\_ HEMP R & D STUCCO/PANELS  
 BUILDING "E" \_\_\_\_\_ HEMP R & D DRY WALL MUD

### BASIS OF ELEVATION:

BNA H B 3 RESET AT THE SW CORNER OF SEVENTH ST. AND STATE ST.  
 ELEV = 467.17'

### EMERGENCY PHONE NUMBERS:

CITY OF HEMET  
 FIRE DEPARTMENT (951) 765-2464 MISSION AMBULANCE (951) 654-2746  
 CITY OF HEMET POLICE DISPATCH (951) 765-2400 FRONTIER TELEPHONE (800) 921-8101  
 CITY OF HEMET TRAFFIC SIGNALS (951) 675-3710 SOUTHERN CALIFORNIA EDISON COMPANY (800) 655-4555  
 HEMET UNIFIED SCHOOL DISTRICT (951) 765-5100 SOUTHERN CALIFORNIA GAS COMPANY (800) 427-2200  
 UNDERGROUND ALERT SERVICE \_\_\_\_\_ 811

### BASIS OF BEARING:

CALIFORNIA STATE PLANE COORDINATE SYSTEM  
 ZONE 6

### FLOOD ZONE:

ZONE X, 06065C1488H  
 EFFECTIVE 4-19-2017

### UTILITIES:

ELECTRIC \_\_\_\_\_ SO. CAL. EDISON COMPANY (800) 655-4555 PH.  
 GAS \_\_\_\_\_ THE GAS COMPANY (800) 427-2200 PH.  
 WATER \_\_\_\_\_ EMD (951) 928-3777 PH.  
 SEWER \_\_\_\_\_ EMD (951) 928-3777 PH.  
 TELEPHONE \_\_\_\_\_ FRONTIER (800) 921-8101 PH.  
 CABLE \_\_\_\_\_ SPECTRUM CABLE (855) 427-0190 PH.

### LEGAL DESCRIPTION:

LOT 5 AND PORTION OF LOT 4 OF MESA TERRACE TRACT, IN THE CITY OF HEMET, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA AS PER MAP RECORDED IN BOOK 8 PAGE 46 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

### EARTHWORK:

CUT \_\_\_\_\_ 0± C.Y.  
 FILL \_\_\_\_\_ 0± C.Y.  
 IMPORT \_\_\_\_\_ 0± C.Y.

### NOTE:

EARTH QUANTITIES SHOWN HERE ARE FOR RAW ESTIMATING PLAN CHECKS ONLY. GRADING CONTRACTOR IS RESPONSIBLE TO PERFORM THEIR OWN CALCULATIONS FOR EARTH VOLUME WITH THE SOILS ENGINEER'S RECOMMENDATION.

### OWNER/DEVELOPER:

SSS GROUP, A CALIFORNIA PARTNERSHIP  
 MICHAEL A. GURBINO AND SUZANNE E. GURBINO  
 MURRIETA, CA 92562  
 CONTACT: JOHN ROWLAND  
 (951) 270-4081 PH.  
 JMVPOPTICS@AOL.COM

### ENGINEER:

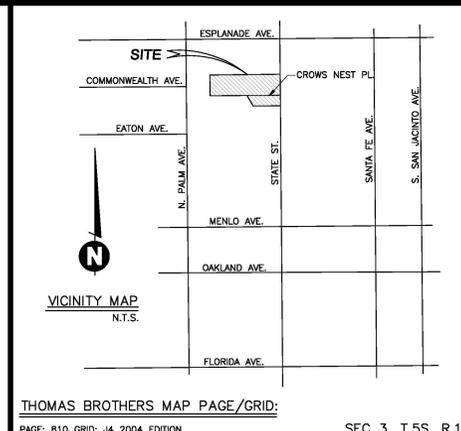
SAKE ENGINEERS INC.  
 400 S. RAMONA AVE. STE. 202  
 CORONA, CA 92879  
 (951) 270-4081 PH.  
 (951) 279-2830 FAX

### SOIL ENGINEER:

SOIL EXPLORATION COMPANY, INC.  
 7535 JURUPA AVE. UNIT C  
 RIVERSIDE, CA 92504  
 (951) 688-7200 PH.  
 (951) 688-7100 FAX

### TOPOGRAPHY:

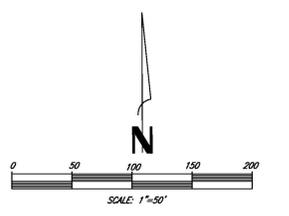
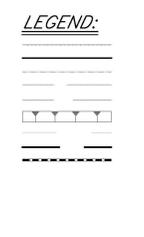
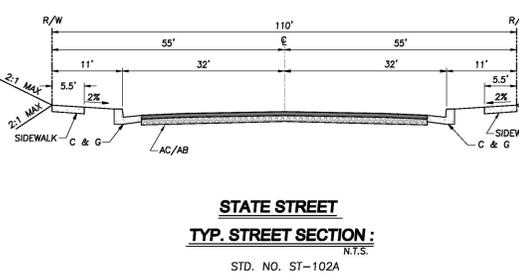
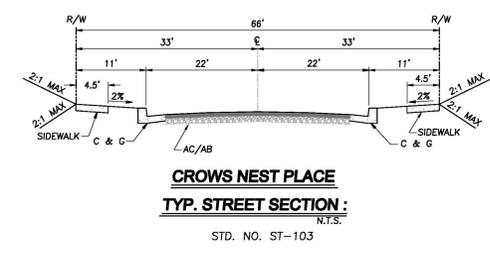
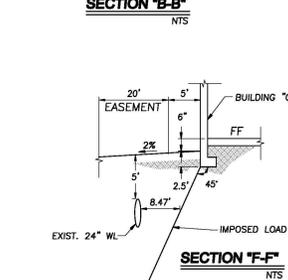
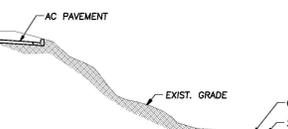
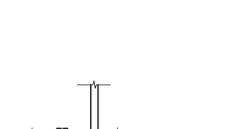
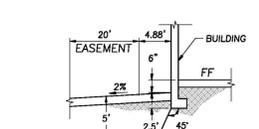
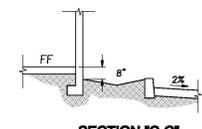
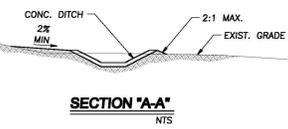
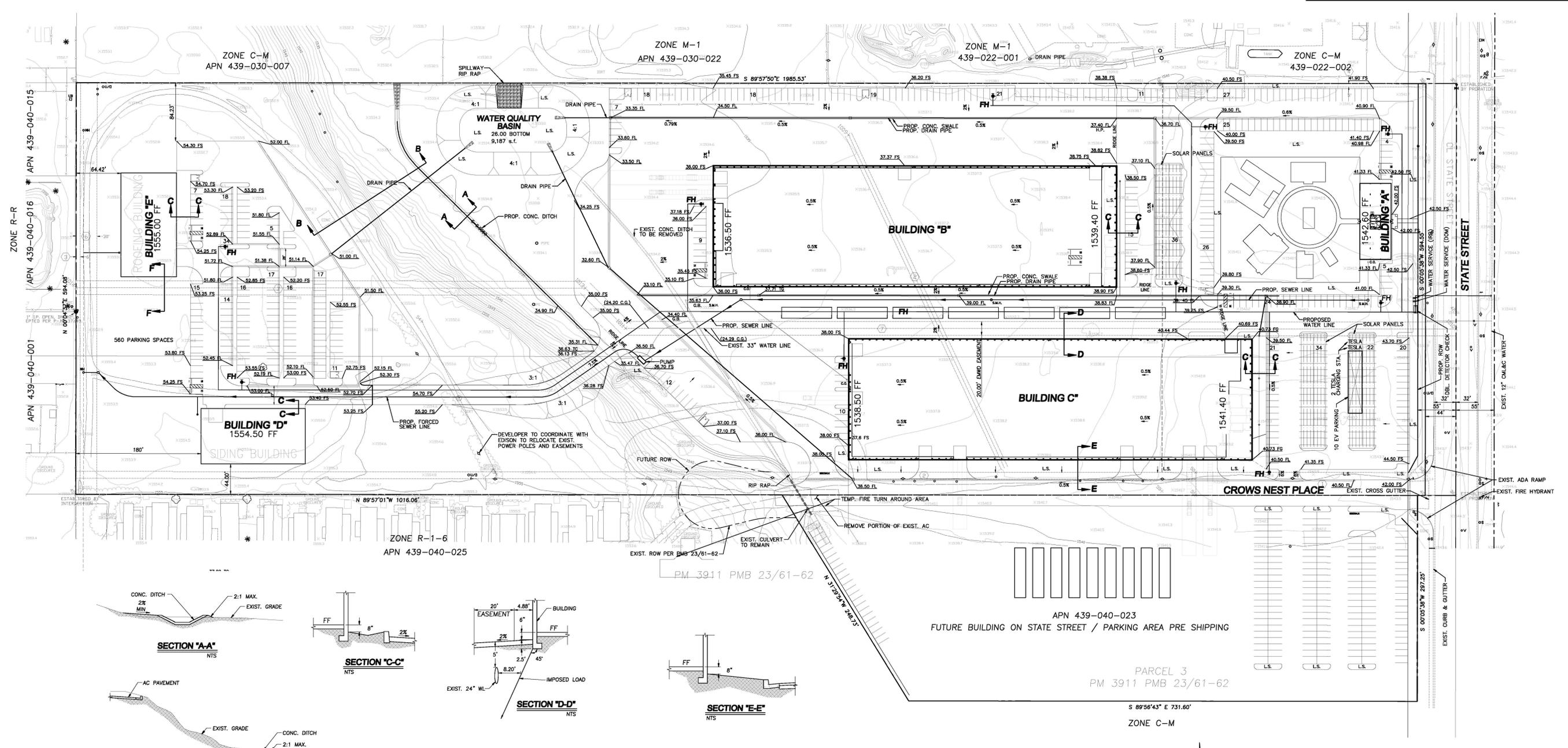
LANDMARK SURVEYING  
 14588 CHOKO CHERRY DRIVE  
 VICTORVILLE, CA 92392  
 (760) 955-4141 PH.



THOMAS BROTHERS MAP PAGE/GRID:

PAGE: 810 GRID: J4 2004 EDITION  
 PAGE: 811 GRID: A4 2004 EDITION

SEC 3, T.5S, R.1W



REVISIONS		DATE	BY

<b>PLOT PLAN</b>		<b>CITY OF HEMET</b>	
SCALE: 1" = 50'	DATE: 4/29/2020	J.N. 3210	SHEET 1
DRAWN: JAC	CHECKED: SA	FILE: SERVER\PROJECTS\UN3210\CIVIL\LOTPLAN.dwg	DWG. NO.
DESIGNED: SA	PLN CK REF:	OF 1 SHEETS	

PREPARED UNDER THE DIRECTION OF:  
**SAM AKBARPOUR P.E.** RCE 053038



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**Attachment 2**  
**CalEEMod Project File Outputs**

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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

**Hemet S2A Modular Factory (Phase 1)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	118.31	1000sqft	2.72	118,314.00	0
Other Asphalt Surfaces	386.87	1000sqft	8.88	386,869.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building A (4,959sf), Building B (101,335sf), Building E (12,000sf) and 80% of paving (386,869sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively flat site. 1 mo grading, 4 mo construction, 2 weeks paving, 2 weeks arch coating

Off-road Equipment - Arch Coat - Equipment quantity adjusted to reflect intensified development schedule.

Off-road Equipment - Building Const - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment -

Off-road Equipment - Grading - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment - Paving - Equip quantity and runtime adjusted to account for intensified dev schedule.

Off-road Equipment -

Grading -

Architectural Coating - VOC content of arch coating adjusted to reflect compliance with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

Trips and VMT - Worker and vendor trips adjusted upward to reflect intensified dev schedule.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	300.00	88.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	20.00	10.00
tblLandUse	LandUseSquareFeet	118,310.00	118,314.00
tblLandUse	LandUseSquareFeet	386,870.00	386,869.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	7.40
tblOffRoadEquipment	UsageHours	8.00	6.80
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.30
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tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	7.00	6.50
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	6.80
tblTripsAndVMT	VendorTripNumber	83.00	283.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

tblTripsAndVMT	WorkerTripNumber	33.00	48.00
tblTripsAndVMT	WorkerTripNumber	212.00	723.00
tblTripsAndVMT	WorkerTripNumber	30.00	55.00
tblTripsAndVMT	WorkerTripNumber	42.00	84.00

**2.0 Emissions Summary**

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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2020	10-31-2020	3.2255	3.2255
2	11-1-2020	1-31-2021	2.8088	2.8088
		Highest	3.2255	3.2255

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	0.5134	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134
Energy	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	587.7600	587.7600	0.0197	7.0300e-003	590.3479
Mobile	0.1154	1.0136	1.6113	7.5900e-003	0.6061	5.2700e-003	0.6113	0.1624	4.9300e-003	0.1673	0.0000	703.0915	703.0915	0.0314	0.0000	703.8754
Waste						0.0000	0.0000		0.0000	0.0000	29.7788	0.0000	29.7788	1.7599	0.0000	73.7757
Water						0.0000	0.0000		0.0000	0.0000	8.6798	113.5070	122.1868	0.8962	0.0220	151.1533
<b>Total</b>	<b>0.6494</b>	<b>1.2021</b>	<b>1.7761</b>	<b>8.7200e-003</b>	<b>0.6061</b>	<b>0.0196</b>	<b>0.6257</b>	<b>0.1624</b>	<b>0.0193</b>	<b>0.1817</b>	<b>38.4586</b>	<b>1,404.3710</b>	<b>1,442.8295</b>	<b>2.7072</b>	<b>0.0291</b>	<b>1,519.1656</b>

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**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	0.5134	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134
Energy	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	587.7600	587.7600	0.0197	7.0300e-003	590.3479
Mobile	0.1154	1.0136	1.6113	7.5900e-003	0.6061	5.2700e-003	0.6113	0.1624	4.9300e-003	0.1673	0.0000	703.0915	703.0915	0.0314	0.0000	703.8754
Waste						0.0000	0.0000		0.0000	0.0000	29.7788	0.0000	29.7788	1.7599	0.0000	73.7757
Water						0.0000	0.0000		0.0000	0.0000	8.6798	113.5070	122.1868	0.8962	0.0220	151.1533
<b>Total</b>	<b>0.6494</b>	<b>1.2021</b>	<b>1.7761</b>	<b>8.7200e-003</b>	<b>0.6061</b>	<b>0.0196</b>	<b>0.6257</b>	<b>0.1624</b>	<b>0.0193</b>	<b>0.1817</b>	<b>38.4586</b>	<b>1,404.3710</b>	<b>1,442.8295</b>	<b>2.7072</b>	<b>0.0291</b>	<b>1,519.1656</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**

## Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2020	7/31/2020	5	0	
2	Site Preparation	Site Preparation	8/1/2020	7/31/2020	5	0	
3	Grading	Grading	8/1/2020	8/31/2020	5	21	
4	Building Construction	Building Construction	9/1/2020	12/31/2020	5	88	
5	Paving	Paving	1/1/2021	1/15/2021	5	11	
6	Architectural Coating	Architectural Coating	1/18/2021	1/29/2021	5	10	

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

**Acres of Grading (Grading Phase): 74.81**

**Acres of Paving: 8.88**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,471; Non-Residential Outdoor: 59,157; Striped Parking Area: 23,212 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	3	7.60	158	0.38
Grading	Graders	2	5.70	187	0.41
Grading	Rubber Tired Dozers	2	5.70	247	0.40
Grading	Scrapers	3	7.60	367	0.48
Grading	Tractors/Loaders/Backhoes	3	7.60	97	0.37
Building Construction	Cranes	4	6.00	231	0.29
Building Construction	Forklifts	11	7.40	89	0.20
Building Construction	Generator Sets	4	6.80	84	0.74
Building Construction	Tractors/Loaders/Backhoes	11	6.50	97	0.37
Building Construction	Welders	4	6.80	46	0.45
Paving	Pavers	4	7.30	130	0.42
Paving	Paving Equipment	4	7.30	132	0.36
Paving	Rollers	4	7.30	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT









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**3.3 Site Preparation - 2020**

**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>							

**3.4 Grading - 2020**

**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					0.1298	0.0000	0.1298	0.0538	0.0000	0.0538	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0666	0.7511	0.4782	9.3000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	81.5221	81.5221	0.0264	0.0000	82.1813
<b>Total</b>	<b>0.0666</b>	<b>0.7511</b>	<b>0.4782</b>	<b>9.3000e-004</b>	<b>0.1298</b>	<b>0.0325</b>	<b>0.1623</b>	<b>0.0538</b>	<b>0.0299</b>	<b>0.0837</b>	<b>0.0000</b>	<b>81.5221</b>	<b>81.5221</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.1813</b>

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**3.4 Grading - 2020**

**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	2.3200e-003	1.6200e-003	0.0173	5.0000e-005	5.5400e-003	3.0000e-005	5.5700e-003	1.4700e-003	3.0000e-005	1.5000e-003	0.0000	4.6348	4.6348	1.2000e-004	0.0000	4.6377
<b>Total</b>	<b>2.3200e-003</b>	<b>1.6200e-003</b>	<b>0.0173</b>	<b>5.0000e-005</b>	<b>5.5400e-003</b>	<b>3.0000e-005</b>	<b>5.5700e-003</b>	<b>1.4700e-003</b>	<b>3.0000e-005</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.6348</b>	<b>4.6348</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.6377</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					0.0506	0.0000	0.0506	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0666	0.7511	0.4782	9.3000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	81.5220	81.5220	0.0264	0.0000	82.1812
<b>Total</b>	<b>0.0666</b>	<b>0.7511</b>	<b>0.4782</b>	<b>9.3000e-004</b>	<b>0.0506</b>	<b>0.0325</b>	<b>0.0831</b>	<b>0.0210</b>	<b>0.0299</b>	<b>0.0509</b>	<b>0.0000</b>	<b>81.5220</b>	<b>81.5220</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.1812</b>

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**3.4 Grading - 2020**

**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	2.3200e-003	1.6200e-003	0.0173	5.0000e-005	5.5400e-003	3.0000e-005	5.5700e-003	1.4700e-003	3.0000e-005	1.5000e-003	0.0000	4.6348	4.6348	1.2000e-004	0.0000	4.6377
<b>Total</b>	<b>2.3200e-003</b>	<b>1.6200e-003</b>	<b>0.0173</b>	<b>5.0000e-005</b>	<b>5.5400e-003</b>	<b>3.0000e-005</b>	<b>5.5700e-003</b>	<b>1.4700e-003</b>	<b>3.0000e-005</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.6348</b>	<b>4.6348</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.6377</b>

**3.5 Building Construction - 2020**

**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	0.3176	2.8759	2.5228	4.0300e-003		0.1673	0.1673		0.1573	0.1573	0.0000	347.0485	347.0485	0.0847	0.0000	349.1663
<b>Total</b>	<b>0.3176</b>	<b>2.8759</b>	<b>2.5228</b>	<b>4.0300e-003</b>		<b>0.1673</b>	<b>0.1673</b>		<b>0.1573</b>	<b>0.1573</b>	<b>0.0000</b>	<b>347.0485</b>	<b>347.0485</b>	<b>0.0847</b>	<b>0.0000</b>	<b>349.1663</b>

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**3.5 Building Construction - 2020**

**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	0.0354	1.2951	0.2534	3.2000e-003	0.0787	7.3200e-003	0.0860	0.0227	7.0100e-003	0.0297	0.0000	306.1793	306.1793	0.0245	0.0000	306.7912
Worker	0.1462	0.1024	1.0939	3.2400e-003	0.3497	2.1500e-003	0.3518	0.0929	1.9800e-003	0.0948	0.0000	292.5408	292.5408	7.3300e-003	0.0000	292.7239
<b>Total</b>	<b>0.1816</b>	<b>1.3976</b>	<b>1.3472</b>	<b>6.4400e-003</b>	<b>0.4283</b>	<b>9.4700e-003</b>	<b>0.4378</b>	<b>0.1155</b>	<b>8.9900e-003</b>	<b>0.1245</b>	<b>0.0000</b>	<b>598.7201</b>	<b>598.7201</b>	<b>0.0318</b>	<b>0.0000</b>	<b>599.5151</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	0.3176	2.8759	2.5228	4.0300e-003		0.1673	0.1673		0.1573	0.1573	0.0000	347.0481	347.0481	0.0847	0.0000	349.1659
<b>Total</b>	<b>0.3176</b>	<b>2.8759</b>	<b>2.5228</b>	<b>4.0300e-003</b>		<b>0.1673</b>	<b>0.1673</b>		<b>0.1573</b>	<b>0.1573</b>	<b>0.0000</b>	<b>347.0481</b>	<b>347.0481</b>	<b>0.0847</b>	<b>0.0000</b>	<b>349.1659</b>

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**3.5 Building Construction - 2020**

**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	0.0354	1.2951	0.2534	3.2000e-003	0.0787	7.3200e-003	0.0860	0.0227	7.0100e-003	0.0297	0.0000	306.1793	306.1793	0.0245	0.0000	306.7912
Worker	0.1462	0.1024	1.0939	3.2400e-003	0.3497	2.1500e-003	0.3518	0.0929	1.9800e-003	0.0948	0.0000	292.5408	292.5408	7.3300e-003	0.0000	292.7239
<b>Total</b>	<b>0.1816</b>	<b>1.3976</b>	<b>1.3472</b>	<b>6.4400e-003</b>	<b>0.4283</b>	<b>9.4700e-003</b>	<b>0.4378</b>	<b>0.1155</b>	<b>8.9900e-003</b>	<b>0.1245</b>	<b>0.0000</b>	<b>598.7201</b>	<b>598.7201</b>	<b>0.0318</b>	<b>0.0000</b>	<b>599.5151</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1297	0.1471	2.3000e-004		6.8000e-003	6.8000e-003		6.2600e-003	6.2600e-003	0.0000	20.0986	20.0986	6.5000e-003	0.0000	20.2611
Paving	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0242</b>	<b>0.1297</b>	<b>0.1471</b>	<b>2.3000e-004</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>		<b>6.2600e-003</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>20.0986</b>	<b>20.0986</b>	<b>6.5000e-003</b>	<b>0.0000</b>	<b>20.2611</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.7000e-004	9.5200e-003	3.0000e-005	3.3200e-003	2.0000e-005	3.3400e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6888	2.6888	6.0000e-005	0.0000	2.6903
<b>Total</b>	<b>1.3000e-003</b>	<b>8.7000e-004</b>	<b>9.5200e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>2.0000e-005</b>	<b>3.3400e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.6888</b>	<b>2.6888</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.6903</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	0.0126	0.1297	0.1471	2.3000e-004		6.8000e-003	6.8000e-003		6.2600e-003	6.2600e-003	0.0000	20.0985	20.0985	6.5000e-003	0.0000	20.2611
Paving	0.0116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0242</b>	<b>0.1297</b>	<b>0.1471</b>	<b>2.3000e-004</b>		<b>6.8000e-003</b>	<b>6.8000e-003</b>		<b>6.2600e-003</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>20.0985</b>	<b>20.0985</b>	<b>6.5000e-003</b>	<b>0.0000</b>	<b>20.2611</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.7000e-004	9.5200e-003	3.0000e-005	3.3200e-003	2.0000e-005	3.3400e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6888	2.6888	6.0000e-005	0.0000	2.6903
<b>Total</b>	<b>1.3000e-003</b>	<b>8.7000e-004</b>	<b>9.5200e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>2.0000e-005</b>	<b>3.3400e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.6888</b>	<b>2.6888</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.6903</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3280					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
<b>Total</b>	<b>0.3302</b>	<b>0.0153</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.5576</b>

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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.2100e-003	0.0132	4.0000e-005	4.6200e-003	3.0000e-005	4.6400e-003	1.2300e-003	3.0000e-005	1.2500e-003	0.0000	3.7332	3.7332	9.0000e-005	0.0000	3.7353
<b>Total</b>	<b>1.8000e-003</b>	<b>1.2100e-003</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>4.6200e-003</b>	<b>3.0000e-005</b>	<b>4.6400e-003</b>	<b>1.2300e-003</b>	<b>3.0000e-005</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.7332</b>	<b>3.7332</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7353</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	0.3280					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
<b>Total</b>	<b>0.3302</b>	<b>0.0153</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>		<b>9.4000e-004</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.5576</b>

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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.2100e-003	0.0132	4.0000e-005	4.6200e-003	3.0000e-005	4.6400e-003	1.2300e-003	3.0000e-005	1.2500e-003	0.0000	3.7332	3.7332	9.0000e-005	0.0000	3.7353
<b>Total</b>	<b>1.8000e-003</b>	<b>1.2100e-003</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>4.6200e-003</b>	<b>3.0000e-005</b>	<b>4.6400e-003</b>	<b>1.2300e-003</b>	<b>3.0000e-005</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.7332</b>	<b>3.7332</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7353</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1154	1.0136	1.6113	7.5900e-003	0.6061	5.2700e-003	0.6113	0.1624	4.9300e-003	0.1673	0.0000	703.0915	703.0915	0.0314	0.0000	703.8754
Unmitigated	0.1154	1.0136	1.6113	7.5900e-003	0.6061	5.2700e-003	0.6113	0.1624	4.9300e-003	0.1673	0.0000	703.0915	703.0915	0.0314	0.0000	703.8754

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	451.94	176.28	73.35	1,587,446	1,587,446
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	451.94	176.28	73.35	1,587,446	1,587,446

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

**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	382.6284	382.6284	0.0158	3.2700e-003	383.9972
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	382.6284	382.6284	0.0158	3.2700e-003	383.9972
NaturalGas Mitigated	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1317	205.1317	3.9300e-003	3.7600e-003	206.3506
NaturalGas Unmitigated	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1317	205.1317	3.9300e-003	3.7600e-003	206.3506

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

**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	3.84402e+006	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1317	205.1317	3.9300e-003	3.7600e-003	206.3506
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0207</b>	<b>0.1884</b>	<b>0.1583</b>	<b>1.1300e-003</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>205.1317</b>	<b>205.1317</b>	<b>3.9300e-003</b>	<b>3.7600e-003</b>	<b>206.3506</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					
Manufacturing	3.84402e+006	0.0207	0.1884	0.1583	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.1317	205.1317	3.9300e-003	3.7600e-003	206.3506
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0207</b>	<b>0.1884</b>	<b>0.1583</b>	<b>1.1300e-003</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>205.1317</b>	<b>205.1317</b>	<b>3.9300e-003</b>	<b>3.7600e-003</b>	<b>206.3506</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.20089e+006	382.6284	0.0158	3.2700e-003	383.9972
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>382.6284</b>	<b>0.0158</b>	<b>3.2700e-003</b>	<b>383.9972</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.20089e+006	382.6284	0.0158	3.2700e-003	383.9972
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>382.6284</b>	<b>0.0158</b>	<b>3.2700e-003</b>	<b>383.9972</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.5134	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134
Unmitigated	0.5134	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134

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	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134
<b>Total</b>	<b>0.5134</b>	<b>6.0000e-005</b>	<b>6.4600e-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>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0134</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	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0125	0.0125	3.0000e-005	0.0000	0.0134
<b>Total</b>	<b>0.5134</b>	<b>6.0000e-005</b>	<b>6.4600e-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>0.0125</b>	<b>0.0125</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0134</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	122.1868	0.8962	0.0220	151.1533
Unmitigated	122.1868	0.8962	0.0220	151.1533

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	27.3592 / 0	122.1868	0.8962	0.0220	151.1533
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>122.1868</b>	<b>0.8962</b>	<b>0.0220</b>	<b>151.1533</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	27.3592 / 0	122.1868	0.8962	0.0220	151.1533
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>122.1868</b>	<b>0.8962</b>	<b>0.0220</b>	<b>151.1533</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.7788	1.7599	0.0000	73.7757
Unmitigated	29.7788	1.7599	0.0000	73.7757

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	146.7	29.7788	1.7599	0.0000	73.7757
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>29.7788</b>	<b>1.7599</b>	<b>0.0000</b>	<b>73.7757</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	146.7	29.7788	1.7599	0.0000	73.7757
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>29.7788</b>	<b>1.7599</b>	<b>0.0000</b>	<b>73.7757</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Annual

**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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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**Hemet S2A Modular Factory (Phase 1)**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	118.31	1000sqft	2.72	118,314.00	0
Other Asphalt Surfaces	386.87	1000sqft	8.88	386,869.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building A (4,959sf), Building B (101,335sf), Building E (12,000sf) and 80% of paving (386,869sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively flat site. 1 mo grading, 4 mo construction, 2 weeks paving, 2 weeks arch coating

Off-road Equipment - Arch Coat - Equipment quantity adjusted to reflect intensified development schedule.

Off-road Equipment - Building Const - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment -

Off-road Equipment - Grading - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment - Paving - Equip quantity and runtime adjusted to account for intensified dev schedule.

Off-road Equipment -

Grading -

Architectural Coating - VOC content of arch coating adjusted to reflect compliance with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

Trips and VMT - Worker and vendor trips adjusted upward to reflect intensified dev schedule.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	300.00	88.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	20.00	10.00
tblLandUse	LandUseSquareFeet	118,310.00	118,314.00
tblLandUse	LandUseSquareFeet	386,870.00	386,869.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	7.40
tblOffRoadEquipment	UsageHours	8.00	6.80
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	7.00	6.50
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	6.80
tblTripsAndVMT	VendorTripNumber	83.00	283.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

tblTripsAndVMT	WorkerTripNumber	33.00	48.00
tblTripsAndVMT	WorkerTripNumber	212.00	723.00
tblTripsAndVMT	WorkerTripNumber	30.00	55.00
tblTripsAndVMT	WorkerTripNumber	42.00	84.00

**2.0 Emissions Summary**

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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Energy	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Mobile	0.9302	6.8679	12.6696	0.0557	4.2680	0.0364	4.3044	1.1419	0.0341	1.1760		5,682.7647	5,682.7647	0.2407		5,688.7812
<b>Total</b>	<b>3.8582</b>	<b>7.9008</b>	<b>13.5886</b>	<b>0.0619</b>	<b>4.2680</b>	<b>0.1151</b>	<b>4.3830</b>	<b>1.1419</b>	<b>0.1128</b>	<b>1.2546</b>		<b>6,921.8831</b>	<b>6,921.8831</b>	<b>0.2647</b>	<b>0.0227</b>	<b>6,935.2697</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	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Energy	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Mobile	0.9302	6.8679	12.6696	0.0557	4.2680	0.0364	4.3044	1.1419	0.0341	1.1760		5,682.7647	5,682.7647	0.2407		5,688.7812
<b>Total</b>	<b>3.8582</b>	<b>7.9008</b>	<b>13.5886</b>	<b>0.0619</b>	<b>4.2680</b>	<b>0.1151</b>	<b>4.3830</b>	<b>1.1419</b>	<b>0.1128</b>	<b>1.2546</b>		<b>6,921.8831</b>	<b>6,921.8831</b>	<b>0.2647</b>	<b>0.0227</b>	<b>6,935.2697</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2020	7/31/2020	5	0	
2	Site Preparation	Site Preparation	8/1/2020	7/31/2020	5	0	
3	Grading	Grading	8/1/2020	8/31/2020	5	21	
4	Building Construction	Building Construction	9/1/2020	12/31/2020	5	88	
5	Paving	Paving	1/1/2021	1/15/2021	5	11	
6	Architectural Coating	Architectural Coating	1/18/2021	1/29/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 74.81

Acres of Paving: 8.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,471; Non-Residential Outdoor: 59,157; Striped Parking Area: 23,212 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	3	7.60	158	0.38
Grading	Graders	2	5.70	187	0.41
Grading	Rubber Tired Dozers	2	5.70	247	0.40
Grading	Scrapers	3	7.60	367	0.48
Grading	Tractors/Loaders/Backhoes	3	7.60	97	0.37
Building Construction	Cranes	4	6.00	231	0.29
Building Construction	Forklifts	11	7.40	89	0.20
Building Construction	Generator Sets	4	6.80	84	0.74
Building Construction	Tractors/Loaders/Backhoes	11	6.50	97	0.37
Building Construction	Welders	4	6.80	46	0.45
Paving	Pavers	4	7.30	130	0.42
Paving	Paving Equipment	4	7.30	132	0.36
Paving	Rollers	4	7.30	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT









Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.3 Site Preparation - 2020**

**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>							

**3.4 Grading - 2020**

**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					12.3594	0.0000	12.3594	5.1250	0.0000	5.1250			0.0000			0.0000
Off-Road	6.3414	71.5315	45.5405	0.0884		3.0978	3.0978		2.8500	2.8500		8,558.3580	8,558.3580	2.7680		8,627.5567
<b>Total</b>	<b>6.3414</b>	<b>71.5315</b>	<b>45.5405</b>	<b>0.0884</b>	<b>12.3594</b>	<b>3.0978</b>	<b>15.4572</b>	<b>5.1250</b>	<b>2.8500</b>	<b>7.9750</b>		<b>8,558.3580</b>	<b>8,558.3580</b>	<b>2.7680</b>		<b>8,627.5567</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.4 Grading - 2020**

**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
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
Worker	0.2443	0.1445	1.9354	5.3100e-003	0.5365	3.2500e-003	0.5398	0.1423	2.9900e-003	0.1453		528.7654	528.7654	0.0136		529.1042
<b>Total</b>	<b>0.2443</b>	<b>0.1445</b>	<b>1.9354</b>	<b>5.3100e-003</b>	<b>0.5365</b>	<b>3.2500e-003</b>	<b>0.5398</b>	<b>0.1423</b>	<b>2.9900e-003</b>	<b>0.1453</b>		<b>528.7654</b>	<b>528.7654</b>	<b>0.0136</b>		<b>529.1042</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8202	0.0000	4.8202	1.9988	0.0000	1.9988			0.0000			0.0000
Off-Road	6.3414	71.5315	45.5405	0.0884		3.0978	3.0978		2.8500	2.8500	0.0000	8,558.3580	8,558.3580	2.7680		8,627.5567
<b>Total</b>	<b>6.3414</b>	<b>71.5315</b>	<b>45.5405</b>	<b>0.0884</b>	<b>4.8202</b>	<b>3.0978</b>	<b>7.9180</b>	<b>1.9988</b>	<b>2.8500</b>	<b>4.8487</b>	<b>0.0000</b>	<b>8,558.3580</b>	<b>8,558.3580</b>	<b>2.7680</b>		<b>8,627.5567</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.4 Grading - 2020**

**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
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
Worker	0.2443	0.1445	1.9354	5.3100e-003	0.5365	3.2500e-003	0.5398	0.1423	2.9900e-003	0.1453		528.7654	528.7654	0.0136		529.1042
<b>Total</b>	<b>0.2443</b>	<b>0.1445</b>	<b>1.9354</b>	<b>5.3100e-003</b>	<b>0.5365</b>	<b>3.2500e-003</b>	<b>0.5398</b>	<b>0.1423</b>	<b>2.9900e-003</b>	<b>0.1453</b>		<b>528.7654</b>	<b>528.7654</b>	<b>0.0136</b>		<b>529.1042</b>

**3.5 Building Construction - 2020**

**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	7.2178	65.3612	57.3368	0.0917		3.8028	3.8028		3.5756	3.5756		8,694.4429	8,694.4429	2.1223		8,747.4992
<b>Total</b>	<b>7.2178</b>	<b>65.3612</b>	<b>57.3368</b>	<b>0.0917</b>		<b>3.8028</b>	<b>3.8028</b>		<b>3.5756</b>	<b>3.5756</b>		<b>8,694.4429</b>	<b>8,694.4429</b>	<b>2.1223</b>		<b>8,747.4992</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.5 Building Construction - 2020**

**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
Vendor	0.7888	29.1184	5.3270	0.0739	1.8122	0.1656	1.9778	0.5218	0.1584	0.6802		7,793.5631	7,793.5631	0.5846		7,808.1770
Worker	3.6792	2.1759	29.1524	0.0800	8.0814	0.0489	8.1304	2.1432	0.0451	2.1883		7,964.5285	7,964.5285	0.2042		7,969.6323
<b>Total</b>	<b>4.4680</b>	<b>31.2943</b>	<b>34.4794</b>	<b>0.1539</b>	<b>9.8937</b>	<b>0.2146</b>	<b>10.1082</b>	<b>2.6650</b>	<b>0.2035</b>	<b>2.8685</b>		<b>15,758.0917</b>	<b>15,758.0917</b>	<b>0.7887</b>		<b>15,777.8092</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.2178	65.3612	57.3368	0.0917		3.8028	3.8028		3.5756	3.5756	0.0000	8,694.4429	8,694.4429	2.1223		8,747.4992
<b>Total</b>	<b>7.2178</b>	<b>65.3612</b>	<b>57.3368</b>	<b>0.0917</b>		<b>3.8028</b>	<b>3.8028</b>		<b>3.5756</b>	<b>3.5756</b>	<b>0.0000</b>	<b>8,694.4429</b>	<b>8,694.4429</b>	<b>2.1223</b>		<b>8,747.4992</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.5 Building Construction - 2020**

**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
Vendor	0.7888	29.1184	5.3270	0.0739	1.8122	0.1656	1.9778	0.5218	0.1584	0.6802		7,793.5631	7,793.5631	0.5846		7,808.1770
Worker	3.6792	2.1759	29.1524	0.0800	8.0814	0.0489	8.1304	2.1432	0.0451	2.1883		7,964.5285	7,964.5285	0.2042		7,969.6323
<b>Total</b>	<b>4.4680</b>	<b>31.2943</b>	<b>34.4794</b>	<b>0.1539</b>	<b>9.8937</b>	<b>0.2146</b>	<b>10.1082</b>	<b>2.6650</b>	<b>0.2035</b>	<b>2.8685</b>		<b>15,758.0917</b>	<b>15,758.0917</b>	<b>0.7887</b>		<b>15,777.8092</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2914	23.5774	26.7422	0.0416		1.2369	1.2369		1.1379	1.1379		4,028.1598	4,028.1598	1.3028		4,060.7296
Paving	2.1151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>4.4064</b>	<b>23.5774</b>	<b>26.7422</b>	<b>0.0416</b>		<b>1.2369</b>	<b>1.2369</b>		<b>1.1379</b>	<b>1.1379</b>		<b>4,028.1598</b>	<b>4,028.1598</b>	<b>1.3028</b>		<b>4,060.7296</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.6 Paving - 2021**

**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
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
Worker	0.2608	0.1486	2.0334	5.8800e-003	0.6148	3.6200e-003	0.6184	0.1630	3.3400e-003	0.1664		585.6130	585.6130	0.0140		585.9621
<b>Total</b>	<b>0.2608</b>	<b>0.1486</b>	<b>2.0334</b>	<b>5.8800e-003</b>	<b>0.6148</b>	<b>3.6200e-003</b>	<b>0.6184</b>	<b>0.1630</b>	<b>3.3400e-003</b>	<b>0.1664</b>		<b>585.6130</b>	<b>585.6130</b>	<b>0.0140</b>		<b>585.9621</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2914	23.5774	26.7422	0.0416		1.2369	1.2369		1.1379	1.1379	0.0000	4,028.1598	4,028.1598	1.3028		4,060.7295
Paving	2.1151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>4.4064</b>	<b>23.5774</b>	<b>26.7422</b>	<b>0.0416</b>		<b>1.2369</b>	<b>1.2369</b>		<b>1.1379</b>	<b>1.1379</b>	<b>0.0000</b>	<b>4,028.1598</b>	<b>4,028.1598</b>	<b>1.3028</b>		<b>4,060.7295</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.2608	0.1486	2.0334	5.8800e-003	0.6148	3.6200e-003	0.6184	0.1630	3.3400e-003	0.1664		585.6130	585.6130	0.0140		585.9621
<b>Total</b>	<b>0.2608</b>	<b>0.1486</b>	<b>2.0334</b>	<b>5.8800e-003</b>	<b>0.6148</b>	<b>3.6200e-003</b>	<b>0.6184</b>	<b>0.1630</b>	<b>3.3400e-003</b>	<b>0.1664</b>		<b>585.6130</b>	<b>585.6130</b>	<b>0.0140</b>		<b>585.9621</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
<b>Total</b>	<b>66.0351</b>	<b>3.0537</b>	<b>3.6351</b>	<b>5.9400e-003</b>		<b>0.1882</b>	<b>0.1882</b>		<b>0.1882</b>	<b>0.1882</b>		<b>562.8961</b>	<b>562.8961</b>	<b>0.0386</b>		<b>563.8618</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2021**

**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
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
Worker	0.3982	0.2269	3.1056	8.9800e-003	0.9389	5.5300e-003	0.9445	0.2490	5.0900e-003	0.2541		894.3908	894.3908	0.0213		894.9239
<b>Total</b>	<b>0.3982</b>	<b>0.2269</b>	<b>3.1056</b>	<b>8.9800e-003</b>	<b>0.9389</b>	<b>5.5300e-003</b>	<b>0.9445</b>	<b>0.2490</b>	<b>5.0900e-003</b>	<b>0.2541</b>		<b>894.3908</b>	<b>894.3908</b>	<b>0.0213</b>		<b>894.9239</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
<b>Total</b>	<b>66.0351</b>	<b>3.0537</b>	<b>3.6351</b>	<b>5.9400e-003</b>		<b>0.1882</b>	<b>0.1882</b>		<b>0.1882</b>	<b>0.1882</b>	<b>0.0000</b>	<b>562.8961</b>	<b>562.8961</b>	<b>0.0386</b>		<b>563.8618</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3982	0.2269	3.1056	8.9800e-003	0.9389	5.5300e-003	0.9445	0.2490	5.0900e-003	0.2541		894.3908	894.3908	0.0213		894.9239
<b>Total</b>	<b>0.3982</b>	<b>0.2269</b>	<b>3.1056</b>	<b>8.9800e-003</b>	<b>0.9389</b>	<b>5.5300e-003</b>	<b>0.9445</b>	<b>0.2490</b>	<b>5.0900e-003</b>	<b>0.2541</b>		<b>894.3908</b>	<b>894.3908</b>	<b>0.0213</b>		<b>894.9239</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9302	6.8679	12.6696	0.0557	4.2680	0.0364	4.3044	1.1419	0.0341	1.1760		5,682.7647	5,682.7647	0.2407		5,688.7812
Unmitigated	0.9302	6.8679	12.6696	0.0557	4.2680	0.0364	4.3044	1.1419	0.0341	1.1760		5,682.7647	5,682.7647	0.2407		5,688.7812

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	451.94	176.28	73.35	1,587,446	1,587,446
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	451.94	176.28	73.35	1,587,446	1,587,446

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
NaturalGas Unmitigated	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	10531.6	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0325</b>	<b>0.8673</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.0079</b>	<b>1,239.0079</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.3707</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					
Manufacturing	10.5316	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0325</b>	<b>0.8673</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.0079</b>	<b>1,239.0079</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.3707</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Unmitigated	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179

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	0.3300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4797					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
<b>Total</b>	<b>2.8144</b>	<b>4.7000e-004</b>	<b>0.0517</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>0.1106</b>	<b>0.1106</b>	<b>2.9000e-004</b>		<b>0.1179</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4797					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
<b>Total</b>	<b>2.8144</b>	<b>4.7000e-004</b>	<b>0.0517</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>0.1106</b>	<b>0.1106</b>	<b>2.9000e-004</b>		<b>0.1179</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Summer

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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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**Hemet S2A Modular Factory (Phase 1)**  
**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	118.31	1000sqft	2.72	118,314.00	0
Other Asphalt Surfaces	386.87	1000sqft	8.88	386,869.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building A (4,959sf), Building B (101,335sf), Building E (12,000sf) and 80% of paving (386,869sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively flat site. 1 mo grading, 4 mo construction, 2 weeks paving, 2 weeks arch coating

Off-road Equipment - Arch Coat - Equipment quantity adjusted to reflect intensified development schedule.

Off-road Equipment - Building Const - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment -

Off-road Equipment - Grading - Equip quantity and runtime adjusted to reflect intensified dev schedule.

Off-road Equipment - Paving - Equip quantity and runtime adjusted to account for intensified dev schedule.

Off-road Equipment -

Grading -

Architectural Coating - VOC content of arch coating adjusted to reflect compliance with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

Trips and VMT - Worker and vendor trips adjusted upward to reflect intensified dev schedule.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	300.00	88.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	20.00	10.00
tblLandUse	LandUseSquareFeet	118,310.00	118,314.00
tblLandUse	LandUseSquareFeet	386,870.00	386,869.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	7.40
tblOffRoadEquipment	UsageHours	8.00	6.80
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	7.30
tblOffRoadEquipment	UsageHours	8.00	5.70
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	7.00	6.50
tblOffRoadEquipment	UsageHours	8.00	7.60
tblOffRoadEquipment	UsageHours	8.00	6.80
tblTripsAndVMT	VendorTripNumber	83.00	283.00

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

tblTripsAndVMT	WorkerTripNumber	33.00	48.00
tblTripsAndVMT	WorkerTripNumber	212.00	723.00
tblTripsAndVMT	WorkerTripNumber	30.00	55.00
tblTripsAndVMT	WorkerTripNumber	42.00	84.00

**2.0 Emissions Summary**

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Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Energy	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Mobile	0.7964	6.9036	10.7833	0.0515	4.2680	0.0367	4.3047	1.1419	0.0344	1.1763		5,257.3072	5,257.3072	0.2453		5,263.4395
<b>Total</b>	<b>3.7244</b>	<b>7.9366</b>	<b>11.7023</b>	<b>0.0577</b>	<b>4.2680</b>	<b>0.1153</b>	<b>4.3833</b>	<b>1.1419</b>	<b>0.1130</b>	<b>1.2549</b>		<b>6,496.4256</b>	<b>6,496.4256</b>	<b>0.2693</b>	<b>0.0227</b>	<b>6,509.9280</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	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Energy	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Mobile	0.7964	6.9036	10.7833	0.0515	4.2680	0.0367	4.3047	1.1419	0.0344	1.1763		5,257.3072	5,257.3072	0.2453		5,263.4395
<b>Total</b>	<b>3.7244</b>	<b>7.9366</b>	<b>11.7023</b>	<b>0.0577</b>	<b>4.2680</b>	<b>0.1153</b>	<b>4.3833</b>	<b>1.1419</b>	<b>0.1130</b>	<b>1.2549</b>		<b>6,496.4256</b>	<b>6,496.4256</b>	<b>0.2693</b>	<b>0.0227</b>	<b>6,509.9280</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2020	7/31/2020	5	0	
2	Site Preparation	Site Preparation	8/1/2020	7/31/2020	5	0	
3	Grading	Grading	8/1/2020	8/31/2020	5	21	
4	Building Construction	Building Construction	9/1/2020	12/31/2020	5	88	
5	Paving	Paving	1/1/2021	1/15/2021	5	11	
6	Architectural Coating	Architectural Coating	1/18/2021	1/29/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 74.81

Acres of Paving: 8.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,471; Non-Residential Outdoor: 59,157; Striped Parking Area: 23,212 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	3	7.60	158	0.38
Grading	Graders	2	5.70	187	0.41
Grading	Rubber Tired Dozers	2	5.70	247	0.40
Grading	Scrapers	3	7.60	367	0.48
Grading	Tractors/Loaders/Backhoes	3	7.60	97	0.37
Building Construction	Cranes	4	6.00	231	0.29
Building Construction	Forklifts	11	7.40	89	0.20
Building Construction	Generator Sets	4	6.80	84	0.74
Building Construction	Tractors/Loaders/Backhoes	11	6.50	97	0.37
Building Construction	Welders	4	6.80	46	0.45
Paving	Pavers	4	7.30	130	0.42
Paving	Paving Equipment	4	7.30	132	0.36
Paving	Rollers	4	7.30	80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT









Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.3 Site Preparation - 2020**

**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>							

**3.4 Grading - 2020**

**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					12.3594	0.0000	12.3594	5.1250	0.0000	5.1250			0.0000			0.0000
Off-Road	6.3414	71.5315	45.5405	0.0884		3.0978	3.0978		2.8500	2.8500		8,558.3580	8,558.3580	2.7680		8,627.5567
<b>Total</b>	<b>6.3414</b>	<b>71.5315</b>	<b>45.5405</b>	<b>0.0884</b>	<b>12.3594</b>	<b>3.0978</b>	<b>15.4572</b>	<b>5.1250</b>	<b>2.8500</b>	<b>7.9750</b>		<b>8,558.3580</b>	<b>8,558.3580</b>	<b>2.7680</b>		<b>8,627.5567</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.4 Grading - 2020**

**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
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
Worker	0.2392	0.1494	1.5656	4.7600e-003	0.5365	3.2500e-003	0.5398	0.1423	2.9900e-003	0.1453		474.3532	474.3532	0.0118		474.6477
<b>Total</b>	<b>0.2392</b>	<b>0.1494</b>	<b>1.5656</b>	<b>4.7600e-003</b>	<b>0.5365</b>	<b>3.2500e-003</b>	<b>0.5398</b>	<b>0.1423</b>	<b>2.9900e-003</b>	<b>0.1453</b>		<b>474.3532</b>	<b>474.3532</b>	<b>0.0118</b>		<b>474.6477</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8202	0.0000	4.8202	1.9988	0.0000	1.9988			0.0000			0.0000
Off-Road	6.3414	71.5315	45.5405	0.0884		3.0978	3.0978		2.8500	2.8500	0.0000	8,558.3580	8,558.3580	2.7680		8,627.5567
<b>Total</b>	<b>6.3414</b>	<b>71.5315</b>	<b>45.5405</b>	<b>0.0884</b>	<b>4.8202</b>	<b>3.0978</b>	<b>7.9180</b>	<b>1.9988</b>	<b>2.8500</b>	<b>4.8487</b>	<b>0.0000</b>	<b>8,558.3580</b>	<b>8,558.3580</b>	<b>2.7680</b>		<b>8,627.5567</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.4 Grading - 2020**

**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
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
Worker	0.2392	0.1494	1.5656	4.7600e-003	0.5365	3.2500e-003	0.5398	0.1423	2.9900e-003	0.1453		474.3532	474.3532	0.0118		474.6477
<b>Total</b>	<b>0.2392</b>	<b>0.1494</b>	<b>1.5656</b>	<b>4.7600e-003</b>	<b>0.5365</b>	<b>3.2500e-003</b>	<b>0.5398</b>	<b>0.1423</b>	<b>2.9900e-003</b>	<b>0.1453</b>		<b>474.3532</b>	<b>474.3532</b>	<b>0.0118</b>		<b>474.6477</b>

**3.5 Building Construction - 2020**

**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	7.2178	65.3612	57.3368	0.0917		3.8028	3.8028		3.5756	3.5756		8,694.4429	8,694.4429	2.1223		8,747.4992
<b>Total</b>	<b>7.2178</b>	<b>65.3612</b>	<b>57.3368</b>	<b>0.0917</b>		<b>3.8028</b>	<b>3.8028</b>		<b>3.5756</b>	<b>3.5756</b>		<b>8,694.4429</b>	<b>8,694.4429</b>	<b>2.1223</b>		<b>8,747.4992</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.5 Building Construction - 2020**

**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
Vendor	0.8320	28.9659	6.2373	0.0712	1.8122	0.1676	1.9798	0.5218	0.1603	0.6821		7,500.710 2	7,500.710 2	0.6505		7,516.972 2
Worker	3.6031	2.2510	23.5823	0.0717	8.0814	0.0489	8.1304	2.1432	0.0451	2.1883		7,144.944 8	7,144.944 8	0.1775		7,149.381 4
<b>Total</b>	<b>4.4351</b>	<b>31.2168</b>	<b>29.8197</b>	<b>0.1429</b>	<b>9.8937</b>	<b>0.2165</b>	<b>10.1102</b>	<b>2.6650</b>	<b>0.2054</b>	<b>2.8704</b>		<b>14,645.65 50</b>	<b>14,645.65 50</b>	<b>0.8280</b>		<b>14,666.35 36</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.2178	65.3612	57.3368	0.0917		3.8028	3.8028		3.5756	3.5756	0.0000	8,694.442 9	8,694.442 9	2.1223		8,747.499 2
<b>Total</b>	<b>7.2178</b>	<b>65.3612</b>	<b>57.3368</b>	<b>0.0917</b>		<b>3.8028</b>	<b>3.8028</b>		<b>3.5756</b>	<b>3.5756</b>	<b>0.0000</b>	<b>8,694.442 9</b>	<b>8,694.442 9</b>	<b>2.1223</b>		<b>8,747.499 2</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.5 Building Construction - 2020**

**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
Vendor	0.8320	28.9659	6.2373	0.0712	1.8122	0.1676	1.9798	0.5218	0.1603	0.6821		7,500.710 2	7,500.710 2	0.6505		7,516.972 2
Worker	3.6031	2.2510	23.5823	0.0717	8.0814	0.0489	8.1304	2.1432	0.0451	2.1883		7,144.944 8	7,144.944 8	0.1775		7,149.381 4
<b>Total</b>	<b>4.4351</b>	<b>31.2168</b>	<b>29.8197</b>	<b>0.1429</b>	<b>9.8937</b>	<b>0.2165</b>	<b>10.1102</b>	<b>2.6650</b>	<b>0.2054</b>	<b>2.8704</b>		<b>14,645.65 50</b>	<b>14,645.65 50</b>	<b>0.8280</b>		<b>14,666.35 36</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2914	23.5774	26.7422	0.0416		1.2369	1.2369		1.1379	1.1379		4,028.159 8	4,028.159 8	1.3028		4,060.729 6
Paving	2.1151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>4.4064</b>	<b>23.5774</b>	<b>26.7422</b>	<b>0.0416</b>		<b>1.2369</b>	<b>1.2369</b>		<b>1.1379</b>	<b>1.1379</b>		<b>4,028.159 8</b>	<b>4,028.159 8</b>	<b>1.3028</b>		<b>4,060.729 6</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.6 Paving - 2021**

**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
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
Worker	0.2559	0.1536	1.6414	5.2700e-003	0.6148	3.6200e-003	0.6184	0.1630	3.3400e-003	0.1664		525.3565	525.3565	0.0121		525.6600
<b>Total</b>	<b>0.2559</b>	<b>0.1536</b>	<b>1.6414</b>	<b>5.2700e-003</b>	<b>0.6148</b>	<b>3.6200e-003</b>	<b>0.6184</b>	<b>0.1630</b>	<b>3.3400e-003</b>	<b>0.1664</b>		<b>525.3565</b>	<b>525.3565</b>	<b>0.0121</b>		<b>525.6600</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2914	23.5774	26.7422	0.0416		1.2369	1.2369		1.1379	1.1379	0.0000	4,028.1598	4,028.1598	1.3028		4,060.7295
Paving	2.1151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>4.4064</b>	<b>23.5774</b>	<b>26.7422</b>	<b>0.0416</b>		<b>1.2369</b>	<b>1.2369</b>		<b>1.1379</b>	<b>1.1379</b>	<b>0.0000</b>	<b>4,028.1598</b>	<b>4,028.1598</b>	<b>1.3028</b>		<b>4,060.7295</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.2559	0.1536	1.6414	5.2700e-003	0.6148	3.6200e-003	0.6184	0.1630	3.3400e-003	0.1664		525.3565	525.3565	0.0121		525.6600
<b>Total</b>	<b>0.2559</b>	<b>0.1536</b>	<b>1.6414</b>	<b>5.2700e-003</b>	<b>0.6148</b>	<b>3.6200e-003</b>	<b>0.6184</b>	<b>0.1630</b>	<b>3.3400e-003</b>	<b>0.1664</b>		<b>525.3565</b>	<b>525.3565</b>	<b>0.0121</b>		<b>525.6600</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
<b>Total</b>	<b>66.0351</b>	<b>3.0537</b>	<b>3.6351</b>	<b>5.9400e-003</b>		<b>0.1882</b>	<b>0.1882</b>		<b>0.1882</b>	<b>0.1882</b>		<b>562.8961</b>	<b>562.8961</b>	<b>0.0386</b>		<b>563.8618</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2021**

**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
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
Worker	0.3908	0.2346	2.5068	8.0500e-003	0.9389	5.5300e-003	0.9445	0.2490	5.0900e-003	0.2541		802.3626	802.3626	0.0185		802.8261
<b>Total</b>	<b>0.3908</b>	<b>0.2346</b>	<b>2.5068</b>	<b>8.0500e-003</b>	<b>0.9389</b>	<b>5.5300e-003</b>	<b>0.9445</b>	<b>0.2490</b>	<b>5.0900e-003</b>	<b>0.2541</b>		<b>802.3626</b>	<b>802.3626</b>	<b>0.0185</b>		<b>802.8261</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
<b>Total</b>	<b>66.0351</b>	<b>3.0537</b>	<b>3.6351</b>	<b>5.9400e-003</b>		<b>0.1882</b>	<b>0.1882</b>		<b>0.1882</b>	<b>0.1882</b>	<b>0.0000</b>	<b>562.8961</b>	<b>562.8961</b>	<b>0.0386</b>		<b>563.8618</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3908	0.2346	2.5068	8.0500e-003	0.9389	5.5300e-003	0.9445	0.2490	5.0900e-003	0.2541		802.3626	802.3626	0.0185		802.8261
<b>Total</b>	<b>0.3908</b>	<b>0.2346</b>	<b>2.5068</b>	<b>8.0500e-003</b>	<b>0.9389</b>	<b>5.5300e-003</b>	<b>0.9445</b>	<b>0.2490</b>	<b>5.0900e-003</b>	<b>0.2541</b>		<b>802.3626</b>	<b>802.3626</b>	<b>0.0185</b>		<b>802.8261</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7964	6.9036	10.7833	0.0515	4.2680	0.0367	4.3047	1.1419	0.0344	1.1763		5,257.307 2	5,257.307 2	0.2453		5,263.439 5
Unmitigated	0.7964	6.9036	10.7833	0.0515	4.2680	0.0367	4.3047	1.1419	0.0344	1.1763		5,257.307 2	5,257.307 2	0.2453		5,263.439 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	451.94	176.28	73.35	1,587,446	1,587,446
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	451.94	176.28	73.35	1,587,446	1,587,446

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
NaturalGas Unmitigated	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	10531.6	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0325</b>	<b>0.8673</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.0079</b>	<b>1,239.0079</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.3707</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					
Manufacturing	10.5316	0.1136	1.0325	0.8673	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.0079	1,239.0079	0.0238	0.0227	1,246.3707
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0325</b>	<b>0.8673</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.0079</b>	<b>1,239.0079</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.3707</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
Unmitigated	2.8144	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179

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	0.3300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4797					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
<b>Total</b>	<b>2.8144</b>	<b>4.7000e-004</b>	<b>0.0517</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>0.1106</b>	<b>0.1106</b>	<b>2.9000e-004</b>		<b>0.1179</b>

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4797					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0517	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1106	0.1106	2.9000e-004		0.1179
<b>Total</b>	<b>2.8144</b>	<b>4.7000e-004</b>	<b>0.0517</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>0.1106</b>	<b>0.1106</b>	<b>2.9000e-004</b>		<b>0.1179</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Phase 1) - Riverside-South Coast County, Winter

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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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**Hemet S2A Modular Factory (Phase 2)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	101.36	1000sqft	2.33	101,355.00	0
Other Asphalt Surfaces	96.72	1000sqft	2.22	96,717.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building B (101,355 sf), Building C (12,000 sf), and remaining paving (20%; 96,717 sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively level site. Building construction adjusted to reflect intensified dev schedule.

Off-road Equipment - Building Const - Equipment quantity and runtime adjusted to reflect intensified dev schedule.

Trips and VMT - Worker and vendor trips increased during building const to account for intensified dev schedule.

Architectural Coating - VOC content of arch coating adjusted to reflect with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	5.00	0.00
tblLandUse	LandUseSquareFeet	101,360.00	101,355.00
tblLandUse	LandUseSquareFeet	96,720.00	96,717.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.20
tblOffRoadEquipment	UsageHours	8.00	7.70
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	7.10
tblTripsAndVMT	VendorTripNumber	32.00	114.00
tblTripsAndVMT	WorkerTripNumber	83.00	294.00

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	2.4123	2.4123
2	7-1-2021	9-30-2021	0.7287	0.7287
		Highest	2.4123	2.4123

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	0.4211	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-003
Energy	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	503.5111	503.5111	0.0169	6.0200e-003	505.7280
Mobile	0.0988	0.8684	1.3805	6.5000e-003	0.5192	4.5100e-003	0.5238	0.1391	4.2300e-003	0.1433	0.0000	602.3612	602.3612	0.0269	0.0000	603.0328
Waste						0.0000	0.0000		0.0000	0.0000	25.5139	0.0000	25.5139	1.5078	0.0000	63.2097
Water						0.0000	0.0000		0.0000	0.0000	7.4363	97.2451	104.6814	0.7678	0.0189	129.4979
<b>Total</b>	<b>0.5376</b>	<b>1.0298</b>	<b>1.5186</b>	<b>7.4700e-003</b>	<b>0.5192</b>	<b>0.0168</b>	<b>0.5360</b>	<b>0.1391</b>	<b>0.0165</b>	<b>0.1556</b>	<b>32.9502</b>	<b>1,203.1223</b>	<b>1,236.0725</b>	<b>2.3194</b>	<b>0.0249</b>	<b>1,301.4737</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**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	0.4211	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-003
Energy	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	503.5111	503.5111	0.0169	6.0200e-003	505.7280
Mobile	0.0988	0.8684	1.3805	6.5000e-003	0.5192	4.5100e-003	0.5238	0.1391	4.2300e-003	0.1433	0.0000	602.3612	602.3612	0.0269	0.0000	603.0328
Waste						0.0000	0.0000		0.0000	0.0000	25.5139	0.0000	25.5139	1.5078	0.0000	63.2097
Water						0.0000	0.0000		0.0000	0.0000	7.4363	97.2451	104.6814	0.7678	0.0189	129.4979
<b>Total</b>	<b>0.5376</b>	<b>1.0298</b>	<b>1.5186</b>	<b>7.4700e-003</b>	<b>0.5192</b>	<b>0.0168</b>	<b>0.5360</b>	<b>0.1391</b>	<b>0.0165</b>	<b>0.1556</b>	<b>32.9502</b>	<b>1,203.1223</b>	<b>1,236.0725</b>	<b>2.3194</b>	<b>0.0249</b>	<b>1,301.4737</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**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	3/31/2021	5	0	
2	Grading	Grading	4/1/2021	4/12/2021	5	8	
3	Building Construction	Building Construction	4/13/2021	7/12/2021	5	65	
4	Site Preparation	Site Preparation	4/29/2021	4/28/2021	5	0	
5	Paving	Paving	7/13/2021	8/5/2021	5	18	
6	Architectural Coating	Architectural Coating	8/6/2021	8/31/2021	5	18	

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

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 2.22**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 152,033; Non-Residential Outdoor: 50,678; Striped Parking Area: 5,803 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	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	3	8.00	97	0.37
Building Construction	Cranes	4	6.20	231	0.29
Building Construction	Forklifts	11	7.70	89	0.20
Building Construction	Generator Sets	4	7.10	84	0.74
Building Construction	Tractors/Loaders/Backhoes	10	7.40	97	0.37
Building Construction	Welders	4	7.10	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**





Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
<b>Total</b>	<b>9.1600e-003</b>	<b>0.0990</b>	<b>0.0634</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>4.6400e-003</b>	<b>0.0309</b>	<b>0.0135</b>	<b>4.2700e-003</b>	<b>0.0177</b>	<b>0.0000</b>	<b>10.4215</b>	<b>10.4215</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5057</b>

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**3.3 Grading - 2021**

**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	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5333	0.5333	1.0000e-005	0.0000	0.5336
<b>Total</b>	<b>2.6000e-004</b>	<b>1.7000e-004</b>	<b>1.8900e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5333</b>	<b>0.5333</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5336</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					0.0102	0.0000	0.0102	5.2500e-003	0.0000	5.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
<b>Total</b>	<b>9.1600e-003</b>	<b>0.0990</b>	<b>0.0634</b>	<b>1.2000e-004</b>	<b>0.0102</b>	<b>4.6400e-003</b>	<b>0.0149</b>	<b>5.2500e-003</b>	<b>4.2700e-003</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>10.4215</b>	<b>10.4215</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5057</b>

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**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5333	0.5333	1.0000e-005	0.0000	0.5336
<b>Total</b>	<b>2.6000e-004</b>	<b>1.7000e-004</b>	<b>1.8900e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5333</b>	<b>0.5333</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5336</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2186	2.0036	1.9045	3.0900e-003		0.1101	0.1101		0.1036	0.1036	0.0000	266.2659	266.2659	0.0642	0.0000	267.8698
<b>Total</b>	<b>0.2186</b>	<b>2.0036</b>	<b>1.9045</b>	<b>3.0900e-003</b>		<b>0.1101</b>	<b>0.1101</b>		<b>0.1036</b>	<b>0.1036</b>	<b>0.0000</b>	<b>266.2659</b>	<b>266.2659</b>	<b>0.0642</b>	<b>0.0000</b>	<b>267.8698</b>

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**3.4 Building Construction - 2021**

**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	8.8400e-003	0.3455	0.0665	9.4000e-004	0.0234	6.6000e-004	0.0241	6.7500e-003	6.3000e-004	7.3800e-003	0.0000	90.3921	90.3921	6.9000e-003	0.0000	90.5645
Worker	0.0410	0.0276	0.3008	9.4000e-004	0.1050	6.3000e-004	0.1057	0.0279	5.8000e-004	0.0285	0.0000	84.9293	84.9293	1.9800e-003	0.0000	84.9787
<b>Total</b>	<b>0.0498</b>	<b>0.3731</b>	<b>0.3673</b>	<b>1.8800e-003</b>	<b>0.1284</b>	<b>1.2900e-003</b>	<b>0.1297</b>	<b>0.0346</b>	<b>1.2100e-003</b>	<b>0.0359</b>	<b>0.0000</b>	<b>175.3213</b>	<b>175.3213</b>	<b>8.8800e-003</b>	<b>0.0000</b>	<b>175.5432</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	0.2186	2.0036	1.9045	3.0900e-003		0.1101	0.1101		0.1036	0.1036	0.0000	266.2655	266.2655	0.0642	0.0000	267.8695
<b>Total</b>	<b>0.2186</b>	<b>2.0036</b>	<b>1.9045</b>	<b>3.0900e-003</b>		<b>0.1101</b>	<b>0.1101</b>		<b>0.1036</b>	<b>0.1036</b>	<b>0.0000</b>	<b>266.2655</b>	<b>266.2655</b>	<b>0.0642</b>	<b>0.0000</b>	<b>267.8695</b>





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**3.5 Site Preparation - 2021**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
Paving	2.9100e-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>0.0128</b>	<b>0.0976</b>	<b>0.1103</b>	<b>1.7000e-004</b>		<b>5.2100e-003</b>	<b>5.2100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>14.7336</b>	<b>14.7336</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8493</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.2000e-004	5.6700e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5999	1.5999	4.0000e-005	0.0000	1.6009
<b>Total</b>	<b>7.7000e-004</b>	<b>5.2000e-004</b>	<b>5.6700e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.5999</b>	<b>1.5999</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6009</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	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
Paving	2.9100e-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>0.0128</b>	<b>0.0976</b>	<b>0.1103</b>	<b>1.7000e-004</b>		<b>5.2100e-003</b>	<b>5.2100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>14.7335</b>	<b>14.7335</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8493</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.2000e-004	5.6700e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5999	1.5999	4.0000e-005	0.0000	1.6009
<b>Total</b>	<b>7.7000e-004</b>	<b>5.2000e-004</b>	<b>5.6700e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.5999</b>	<b>1.5999</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6009</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
<b>Total</b>	<b>0.2503</b>	<b>0.0137</b>	<b>0.0164</b>	<b>3.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3019</b>

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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.4000e-004	4.8200e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3599	1.3599	3.0000e-005	0.0000	1.3607
<b>Total</b>	<b>6.6000e-004</b>	<b>4.4000e-004</b>	<b>4.8200e-003</b>	<b>2.0000e-005</b>	<b>1.6800e-003</b>	<b>1.0000e-005</b>	<b>1.6900e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.3599</b>	<b>1.3599</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.3607</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	0.2483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
<b>Total</b>	<b>0.2503</b>	<b>0.0137</b>	<b>0.0164</b>	<b>3.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3019</b>

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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.4000e-004	4.8200e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3599	1.3599	3.0000e-005	0.0000	1.3607
<b>Total</b>	<b>6.6000e-004</b>	<b>4.4000e-004</b>	<b>4.8200e-003</b>	<b>2.0000e-005</b>	<b>1.6800e-003</b>	<b>1.0000e-005</b>	<b>1.6900e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.3599</b>	<b>1.3599</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.3607</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0988	0.8684	1.3805	6.5000e-003	0.5192	4.5100e-003	0.5238	0.1391	4.2300e-003	0.1433	0.0000	602.3612	602.3612	0.0269	0.0000	603.0328
Unmitigated	0.0988	0.8684	1.3805	6.5000e-003	0.5192	4.5100e-003	0.5238	0.1391	4.2300e-003	0.1433	0.0000	602.3612	602.3612	0.0269	0.0000	603.0328

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	387.20	151.03	62.84	1,360,016	1,360,016
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	387.20	151.03	62.84	1,360,016	1,360,016

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**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	327.7828	327.7828	0.0135	2.8000e-003	328.9555
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	327.7828	327.7828	0.0135	2.8000e-003	328.9555
NaturalGas Mitigated	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7283	175.7283	3.3700e-003	3.2200e-003	176.7726
NaturalGas Unmitigated	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7283	175.7283	3.3700e-003	3.2200e-003	176.7726

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**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	3.29302e+006	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7283	175.7283	3.3700e-003	3.2200e-003	176.7726
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0178</b>	<b>0.1614</b>	<b>0.1356</b>	<b>9.7000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>175.7283</b>	<b>175.7283</b>	<b>3.3700e-003</b>	<b>3.2200e-003</b>	<b>176.7726</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					
Manufacturing	3.29302e+006	0.0178	0.1614	0.1356	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7283	175.7283	3.3700e-003	3.2200e-003	176.7726
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0178</b>	<b>0.1614</b>	<b>0.1356</b>	<b>9.7000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>175.7283</b>	<b>175.7283</b>	<b>3.3700e-003</b>	<b>3.2200e-003</b>	<b>176.7726</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.02875e+006	327.7828	0.0135	2.8000e-003	328.9555
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>327.7828</b>	<b>0.0135</b>	<b>2.8000e-003</b>	<b>328.9555</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.02875e+006	327.7828	0.0135	2.8000e-003	328.9555
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>327.7828</b>	<b>0.0135</b>	<b>2.8000e-003</b>	<b>328.9555</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.4211	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-003
Unmitigated	0.4211	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-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	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-003
<b>Total</b>	<b>0.4211</b>	<b>2.0000e-005</b>	<b>2.5300e-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>4.9200e-003</b>	<b>4.9200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2400e-003</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**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	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.9200e-003	4.9200e-003	1.0000e-005	0.0000	5.2400e-003
<b>Total</b>	<b>0.4211</b>	<b>2.0000e-005</b>	<b>2.5300e-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>4.9200e-003</b>	<b>4.9200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.2400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	104.6814	0.7678	0.0189	129.4979
Unmitigated	104.6814	0.7678	0.0189	129.4979

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	23.4395 / 0	104.6814	0.7678	0.0189	129.4979
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>104.6814</b>	<b>0.7678</b>	<b>0.0189</b>	<b>129.4979</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	23.4395 / 0	104.6814	0.7678	0.0189	129.4979
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>104.6814</b>	<b>0.7678</b>	<b>0.0189</b>	<b>129.4979</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.5139	1.5078	0.0000	63.2097
Unmitigated	25.5139	1.5078	0.0000	63.2097

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	125.69	25.5139	1.5078	0.0000	63.2097
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>25.5139</b>	<b>1.5078</b>	<b>0.0000</b>	<b>63.2097</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	125.69	25.5139	1.5078	0.0000	63.2097
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>25.5139</b>	<b>1.5078</b>	<b>0.0000</b>	<b>63.2097</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Annual

**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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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**Hemet S2A Modular Factory (Phase 2)**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	101.36	1000sqft	2.33	101,355.00	0
Other Asphalt Surfaces	96.72	1000sqft	2.22	96,717.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building B (101,355 sf), Building C (12,000 sf), and remaining paving (20%; 96,717 sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively level site. Building construction adjusted to reflect intensified dev schedule.

Off-road Equipment - Building Const - Equipment quantity and runtime adjusted to reflect intensified dev schedule.

Trips and VMT - Worker and vendor trips increased during building const to account for intensified dev schedule.

Architectural Coating - VOC content of arch coating adjusted to reflect with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	5.00	0.00
tblLandUse	LandUseSquareFeet	101,360.00	101,355.00
tblLandUse	LandUseSquareFeet	96,720.00	96,717.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.20
tblOffRoadEquipment	UsageHours	8.00	7.70
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	7.10
tblTripsAndVMT	VendorTripNumber	32.00	114.00
tblTripsAndVMT	WorkerTripNumber	83.00	294.00

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Energy	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Mobile	0.7970	5.8839	10.8545	0.0477	3.6565	0.0312	3.6877	0.9783	0.0292	1.0075		4,868.6082	4,868.6082	0.2062		4,873.7627
<b>Total</b>	<b>3.2020</b>	<b>6.7686</b>	<b>11.6177</b>	<b>0.0530</b>	<b>3.6565</b>	<b>0.0985</b>	<b>3.7550</b>	<b>0.9783</b>	<b>0.0965</b>	<b>1.0748</b>		<b>5,930.0613</b>	<b>5,930.0613</b>	<b>0.2266</b>	<b>0.0195</b>	<b>5,941.5261</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	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Energy	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Mobile	0.7970	5.8839	10.8545	0.0477	3.6565	0.0312	3.6877	0.9783	0.0292	1.0075		4,868.6082	4,868.6082	0.2062		4,873.7627
<b>Total</b>	<b>3.2020</b>	<b>6.7686</b>	<b>11.6177</b>	<b>0.0530</b>	<b>3.6565</b>	<b>0.0985</b>	<b>3.7550</b>	<b>0.9783</b>	<b>0.0965</b>	<b>1.0748</b>		<b>5,930.0613</b>	<b>5,930.0613</b>	<b>0.2266</b>	<b>0.0195</b>	<b>5,941.5261</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	3/31/2021	5	0	
2	Grading	Grading	4/1/2021	4/12/2021	5	8	
3	Building Construction	Building Construction	4/13/2021	7/12/2021	5	65	
4	Site Preparation	Site Preparation	4/29/2021	4/28/2021	5	0	
5	Paving	Paving	7/13/2021	8/5/2021	5	18	
6	Architectural Coating	Architectural Coating	8/6/2021	8/31/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 152,033; Non-Residential Outdoor: 50,678; Striped Parking Area: 5,803 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	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	3	8.00	97	0.37
Building Construction	Cranes	4	6.20	231	0.29
Building Construction	Forklifts	11	7.70	89	0.20
Building Construction	Generator Sets	4	7.10	84	0.74
Building Construction	Tractors/Loaders/Backhoes	10	7.40	97	0.37
Building Construction	Welders	4	7.10	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**





Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**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
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
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>2.5554</b>	<b>1.1599</b>	<b>3.7153</b>	<b>1.3133</b>	<b>1.0671</b>	<b>2.3804</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7247	61.6496	58.6012	0.0952		3.3890	3.3890		3.1865	3.1865		9,031.0109	9,031.0109	2.1760		9,085.4119
<b>Total</b>	<b>6.7247</b>	<b>61.6496</b>	<b>58.6012</b>	<b>0.0952</b>		<b>3.3890</b>	<b>3.3890</b>		<b>3.1865</b>	<b>3.1865</b>		<b>9,031.0109</b>	<b>9,031.0109</b>	<b>2.1760</b>		<b>9,085.4119</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**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
Vendor	0.2661	10.5495	1.8822	0.0295	0.7300	0.0201	0.7501	0.2102	0.0192	0.2294		3,115.0617	3,115.0617	0.2229		3,120.6330
Worker	1.3938	0.7941	10.8695	0.0314	3.2862	0.0194	3.3056	0.8715	0.0178	0.8894		3,130.3677	3,130.3677	0.0746		3,132.2337
<b>Total</b>	<b>1.6600</b>	<b>11.3435</b>	<b>12.7517</b>	<b>0.0610</b>	<b>4.0162</b>	<b>0.0394</b>	<b>4.0556</b>	<b>1.0817</b>	<b>0.0370</b>	<b>1.1187</b>		<b>6,245.4293</b>	<b>6,245.4293</b>	<b>0.2975</b>		<b>6,252.8667</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7247	61.6496	58.6012	0.0952		3.3890	3.3890		3.1865	3.1865	0.0000	9,031.0109	9,031.0109	2.1760		9,085.4119
<b>Total</b>	<b>6.7247</b>	<b>61.6496</b>	<b>58.6012</b>	<b>0.0952</b>		<b>3.3890</b>	<b>3.3890</b>		<b>3.1865</b>	<b>3.1865</b>	<b>0.0000</b>	<b>9,031.0109</b>	<b>9,031.0109</b>	<b>2.1760</b>		<b>9,085.4119</b>





Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.5 Site Preparation - 2021**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.3231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4171</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.6 Paving - 2021**

**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
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
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
<b>Total</b>	<b>0.0948</b>	<b>0.0540</b>	<b>0.7394</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.3200e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2100e-003</b>	<b>0.0605</b>		<b>212.9502</b>	<b>212.9502</b>	<b>5.0800e-003</b>		<b>213.0771</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.3231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4171</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
<b>Total</b>	<b>0.0948</b>	<b>0.0540</b>	<b>0.7394</b>	<b>2.1400e-003</b>	<b>0.2236</b>	<b>1.3200e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2100e-003</b>	<b>0.0605</b>		<b>212.9502</b>	<b>212.9502</b>	<b>5.0800e-003</b>		<b>213.0771</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>27.8122</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2021**

**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
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
Worker	0.0806	0.0459	0.6285	1.8200e-003	0.1900	1.1200e-003	0.1911	0.0504	1.0300e-003	0.0514		181.0077	181.0077	4.3200e-003		181.1156
<b>Total</b>	<b>0.0806</b>	<b>0.0459</b>	<b>0.6285</b>	<b>1.8200e-003</b>	<b>0.1900</b>	<b>1.1200e-003</b>	<b>0.1911</b>	<b>0.0504</b>	<b>1.0300e-003</b>	<b>0.0514</b>		<b>181.0077</b>	<b>181.0077</b>	<b>4.3200e-003</b>		<b>181.1156</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>27.8122</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0806	0.0459	0.6285	1.8200e-003	0.1900	1.1200e-003	0.1911	0.0504	1.0300e-003	0.0514		181.0077	181.0077	4.3200e-003		181.1156
<b>Total</b>	<b>0.0806</b>	<b>0.0459</b>	<b>0.6285</b>	<b>1.8200e-003</b>	<b>0.1900</b>	<b>1.1200e-003</b>	<b>0.1911</b>	<b>0.0504</b>	<b>1.0300e-003</b>	<b>0.0514</b>		<b>181.0077</b>	<b>181.0077</b>	<b>4.3200e-003</b>		<b>181.1156</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7970	5.8839	10.8545	0.0477	3.6565	0.0312	3.6877	0.9783	0.0292	1.0075		4,868.608 2	4,868.608 2	0.2062		4,873.762 7
Unmitigated	0.7970	5.8839	10.8545	0.0477	3.6565	0.0312	3.6877	0.9783	0.0292	1.0075		4,868.608 2	4,868.608 2	0.2062		4,873.762 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	387.20	151.03	62.84	1,360,016	1,360,016
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	387.20	151.03	62.84	1,360,016	1,360,016

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
NaturalGas Unmitigated	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	9021.98	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0973</b>	<b>0.8845</b>	<b>0.7430</b>	<b>5.3100e-003</b>		<b>0.0672</b>	<b>0.0672</b>		<b>0.0672</b>	<b>0.0672</b>		<b>1,061.4098</b>	<b>1,061.4098</b>	<b>0.0203</b>	<b>0.0195</b>	<b>1,067.7172</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					
Manufacturing	9.02198	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0973</b>	<b>0.8845</b>	<b>0.7430</b>	<b>5.3100e-003</b>		<b>0.0672</b>	<b>0.0672</b>		<b>0.0672</b>	<b>0.0672</b>		<b>1,061.4098</b>	<b>1,061.4098</b>	<b>0.0203</b>	<b>0.0195</b>	<b>1,067.7172</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Unmitigated	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462

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	0.2648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0411					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8800e-003	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
<b>Total</b>	<b>2.3078</b>	<b>1.8000e-004</b>	<b>0.0203</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>0.0434</b>	<b>0.0434</b>	<b>1.1000e-004</b>		<b>0.0462</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0411					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8800e-003	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
<b>Total</b>	<b>2.3078</b>	<b>1.8000e-004</b>	<b>0.0203</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>0.0434</b>	<b>0.0434</b>	<b>1.1000e-004</b>		<b>0.0462</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Summer

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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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**Hemet S2A Modular Factory (Phase 2)**  
**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	101.36	1000sqft	2.33	101,355.00	0
Other Asphalt Surfaces	96.72	1000sqft	2.22	96,717.00	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>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Accounts for Building B (101,355 sf), Building C (12,000 sf), and remaining paving (20%; 96,717 sf)

Construction Phase - Assumes no demo or site prep, since no structures and relatively level site. Building construction adjusted to reflect intensified dev schedule.

Off-road Equipment - Building Const - Equipment quantity and runtime adjusted to reflect intensified dev schedule.

Trips and VMT - Worker and vendor trips increased during building const to account for intensified dev schedule.

Architectural Coating - VOC content of arch coating adjusted to reflect with SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation - Watering 3x per day to reflect compliance with SCAQMD Rule 403.

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	5.00	0.00
tblLandUse	LandUseSquareFeet	101,360.00	101,355.00
tblLandUse	LandUseSquareFeet	96,720.00	96,717.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.20
tblOffRoadEquipment	UsageHours	8.00	7.70
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	7.00	7.40
tblOffRoadEquipment	UsageHours	8.00	7.10
tblTripsAndVMT	VendorTripNumber	32.00	114.00
tblTripsAndVMT	WorkerTripNumber	83.00	294.00

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Energy	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Mobile	0.6823	5.9145	9.2384	0.0441	3.6565	0.0314	3.6880	0.9783	0.0295	1.0077		4,504.1049	4,504.1049	0.2102		4,509.3587
<b>Total</b>	<b>3.0873</b>	<b>6.7992</b>	<b>10.0017</b>	<b>0.0494</b>	<b>3.6565</b>	<b>0.0987</b>	<b>3.7552</b>	<b>0.9783</b>	<b>0.0967</b>	<b>1.0750</b>		<b>5,565.5581</b>	<b>5,565.5581</b>	<b>0.2306</b>	<b>0.0195</b>	<b>5,577.1221</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	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Energy	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Mobile	0.6823	5.9145	9.2384	0.0441	3.6565	0.0314	3.6880	0.9783	0.0295	1.0077		4,504.1049	4,504.1049	0.2102		4,509.3587
<b>Total</b>	<b>3.0873</b>	<b>6.7992</b>	<b>10.0017</b>	<b>0.0494</b>	<b>3.6565</b>	<b>0.0987</b>	<b>3.7552</b>	<b>0.9783</b>	<b>0.0967</b>	<b>1.0750</b>		<b>5,565.5581</b>	<b>5,565.5581</b>	<b>0.2306</b>	<b>0.0195</b>	<b>5,577.1221</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	3/31/2021	5	0	
2	Grading	Grading	4/1/2021	4/12/2021	5	8	
3	Building Construction	Building Construction	4/13/2021	7/12/2021	5	65	
4	Site Preparation	Site Preparation	4/29/2021	4/28/2021	5	0	
5	Paving	Paving	7/13/2021	8/5/2021	5	18	
6	Architectural Coating	Architectural Coating	8/6/2021	8/31/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 152,033; Non-Residential Outdoor: 50,678; Striped Parking Area: 5,803 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	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	3	8.00	97	0.37
Building Construction	Cranes	4	6.20	231	0.29
Building Construction	Forklifts	11	7.70	89	0.20
Building Construction	Generator Sets	4	7.10	84	0.74
Building Construction	Tractors/Loaders/Backhoes	10	7.40	97	0.37
Building Construction	Welders	4	7.10	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**





Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

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

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.3 Grading - 2021**

**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
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
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>2.5554</b>	<b>1.1599</b>	<b>3.7153</b>	<b>1.3133</b>	<b>1.0671</b>	<b>2.3804</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7247	61.6496	58.6012	0.0952		3.3890	3.3890		3.1865	3.1865		9,031.0109	9,031.0109	2.1760		9,085.4119
<b>Total</b>	<b>6.7247</b>	<b>61.6496</b>	<b>58.6012</b>	<b>0.0952</b>		<b>3.3890</b>	<b>3.3890</b>		<b>3.1865</b>	<b>3.1865</b>		<b>9,031.0109</b>	<b>9,031.0109</b>	<b>2.1760</b>		<b>9,085.4119</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.4 Building Construction - 2021**

**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
Vendor	0.2827	10.4586	2.2265	0.0284	0.7300	0.0207	0.7507	0.2102	0.0198	0.2299		2,997.8947	2,997.8947	0.2483		3,004.1025
Worker	1.3679	0.8212	8.7738	0.0282	3.2862	0.0194	3.3056	0.8715	0.0178	0.8894		2,808.2690	2,808.2690	0.0649		2,809.8914
<b>Total</b>	<b>1.6505</b>	<b>11.2798</b>	<b>11.0004</b>	<b>0.0566</b>	<b>4.0162</b>	<b>0.0400</b>	<b>4.0562</b>	<b>1.0817</b>	<b>0.0376</b>	<b>1.1193</b>		<b>5,806.1637</b>	<b>5,806.1637</b>	<b>0.3132</b>		<b>5,813.9939</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7247	61.6496	58.6012	0.0952		3.3890	3.3890		3.1865	3.1865	0.0000	9,031.0109	9,031.0109	2.1760		9,085.4119
<b>Total</b>	<b>6.7247</b>	<b>61.6496</b>	<b>58.6012</b>	<b>0.0952</b>		<b>3.3890</b>	<b>3.3890</b>		<b>3.1865</b>	<b>3.1865</b>	<b>0.0000</b>	<b>9,031.0109</b>	<b>9,031.0109</b>	<b>2.1760</b>		<b>9,085.4119</b>





Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.5 Site Preparation - 2021**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.3231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4171</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.6 Paving - 2021**

**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
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
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
<b>Total</b>	<b>0.0931</b>	<b>0.0559</b>	<b>0.5969</b>	<b>1.9200e-003</b>	<b>0.2236</b>	<b>1.3200e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2100e-003</b>	<b>0.0605</b>		<b>191.0387</b>	<b>191.0387</b>	<b>4.4100e-003</b>		<b>191.1491</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.3231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4171</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
<b>Total</b>	<b>0.0931</b>	<b>0.0559</b>	<b>0.5969</b>	<b>1.9200e-003</b>	<b>0.2236</b>	<b>1.3200e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2100e-003</b>	<b>0.0605</b>		<b>191.0387</b>	<b>191.0387</b>	<b>4.4100e-003</b>		<b>191.1491</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>27.8122</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2021**

**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
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
Worker	0.0791	0.0475	0.5073	1.6300e-003	0.1900	1.1200e-003	0.1911	0.0504	1.0300e-003	0.0514		162.3829	162.3829	3.7500e-003		162.4767
<b>Total</b>	<b>0.0791</b>	<b>0.0475</b>	<b>0.5073</b>	<b>1.6300e-003</b>	<b>0.1900</b>	<b>1.1200e-003</b>	<b>0.1911</b>	<b>0.0504</b>	<b>1.0300e-003</b>	<b>0.0514</b>		<b>162.3829</b>	<b>162.3829</b>	<b>3.7500e-003</b>		<b>162.4767</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>27.8122</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0791	0.0475	0.5073	1.6300e-003	0.1900	1.1200e-003	0.1911	0.0504	1.0300e-003	0.0514		162.3829	162.3829	3.7500e-003		162.4767
<b>Total</b>	<b>0.0791</b>	<b>0.0475</b>	<b>0.5073</b>	<b>1.6300e-003</b>	<b>0.1900</b>	<b>1.1200e-003</b>	<b>0.1911</b>	<b>0.0504</b>	<b>1.0300e-003</b>	<b>0.0514</b>		<b>162.3829</b>	<b>162.3829</b>	<b>3.7500e-003</b>		<b>162.4767</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6823	5.9145	9.2384	0.0441	3.6565	0.0314	3.6880	0.9783	0.0295	1.0077		4,504.1049	4,504.1049	0.2102		4,509.3587
Unmitigated	0.6823	5.9145	9.2384	0.0441	3.6565	0.0314	3.6880	0.9783	0.0295	1.0077		4,504.1049	4,504.1049	0.2102		4,509.3587

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	387.20	151.03	62.84	1,360,016	1,360,016
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	387.20	151.03	62.84	1,360,016	1,360,016

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
NaturalGas Unmitigated	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	9021.98	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0973</b>	<b>0.8845</b>	<b>0.7430</b>	<b>5.3100e-003</b>		<b>0.0672</b>	<b>0.0672</b>		<b>0.0672</b>	<b>0.0672</b>		<b>1,061.4098</b>	<b>1,061.4098</b>	<b>0.0203</b>	<b>0.0195</b>	<b>1,067.7172</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					
Manufacturing	9.02198	0.0973	0.8845	0.7430	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.4098	1,061.4098	0.0203	0.0195	1,067.7172
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0973</b>	<b>0.8845</b>	<b>0.7430</b>	<b>5.3100e-003</b>		<b>0.0672</b>	<b>0.0672</b>		<b>0.0672</b>	<b>0.0672</b>		<b>1,061.4098</b>	<b>1,061.4098</b>	<b>0.0203</b>	<b>0.0195</b>	<b>1,067.7172</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
Unmitigated	2.3078	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462

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	0.2648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0411					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8800e-003	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
<b>Total</b>	<b>2.3078</b>	<b>1.8000e-004</b>	<b>0.0203</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>0.0434</b>	<b>0.0434</b>	<b>1.1000e-004</b>		<b>0.0462</b>

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0411					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8800e-003	1.8000e-004	0.0203	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0434	0.0434	1.1000e-004		0.0462
<b>Total</b>	<b>2.3078</b>	<b>1.8000e-004</b>	<b>0.0203</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>0.0434</b>	<b>0.0434</b>	<b>1.1000e-004</b>		<b>0.0462</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Phase 2) - Riverside-South Coast County, Winter

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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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**Hemet S2A Modular Factory (Ops)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	231.67	1000sqft	5.32	231,669.00	0
Other Asphalt Surfaces	483.59	1000sqft	11.10	483,586.00	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>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use -

Construction Phase - Ops run - not for const emissions; see other model runs.

Vehicle Trips - Trip generation updated to reflect rate in TIA prepared for the project by Ganddini Group, Inc. (Table 2; 983 trips / 250 TSF = 3.93).

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	30.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	12/28/2021	12/1/2020
tblConstructionPhase	PhaseEndDate	11/2/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	7/14/2020	6/17/2020
tblConstructionPhase	PhaseEndDate	9/8/2020	7/29/2020
tblConstructionPhase	PhaseEndDate	11/30/2021	11/3/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	7/15/2020
tblConstructionPhase	PhaseStartDate	12/1/2021	12/1/2020
tblConstructionPhase	PhaseStartDate	11/3/2021	11/3/2020
tblGrading	AcresOfGrading	2.50	75.00
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	3.82	3.93

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-17-2020	9-16-2020	0.0622	0.0622
		Highest	0.0622	0.0622

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	0.9834	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189
Energy	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	1,150.8847	1,150.8847	0.0386	0.0138	1,155.9520
Mobile	0.3159	2.7846	4.4300	0.0198	1.5394	0.0146	1.5540	0.4125	0.0137	0.4261	0.0000	1,832.5967	1,832.5967	0.0842	0.0000	1,834.7025
Waste						0.0000	0.0000		0.0000	0.0000	58.3132	0.0000	58.3132	3.4462	0.0000	144.4685
Water						0.0000	0.0000		0.0000	0.0000	16.9965	222.2649	239.2613	1.7549	0.0431	295.9825
<b>Total</b>	<b>1.3398</b>	<b>3.1537</b>	<b>4.7491</b>	<b>0.0220</b>	<b>1.5394</b>	<b>0.0426</b>	<b>1.5820</b>	<b>0.4125</b>	<b>0.0417</b>	<b>0.4542</b>	<b>75.3097</b>	<b>3,205.7640</b>	<b>3,281.0737</b>	<b>5.3240</b>	<b>0.0569</b>	<b>3,431.1244</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**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	0.9834	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189
Energy	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	1,150.8847	1,150.8847	0.0386	0.0138	1,155.9520
Mobile	0.3159	2.7846	4.4300	0.0198	1.5394	0.0146	1.5540	0.4125	0.0137	0.4261	0.0000	1,832.5967	1,832.5967	0.0842	0.0000	1,834.7025
Waste						0.0000	0.0000		0.0000	0.0000	58.3132	0.0000	58.3132	3.4462	0.0000	144.4685
Water						0.0000	0.0000		0.0000	0.0000	16.9965	222.2649	239.2613	1.7549	0.0431	295.9825
<b>Total</b>	<b>1.3398</b>	<b>3.1537</b>	<b>4.7491</b>	<b>0.0220</b>	<b>1.5394</b>	<b>0.0426</b>	<b>1.5820</b>	<b>0.4125</b>	<b>0.0417</b>	<b>0.4542</b>	<b>75.3097</b>	<b>3,205.7640</b>	<b>3,281.0737</b>	<b>5.3240</b>	<b>0.0569</b>	<b>3,431.1244</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**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2020	6/17/2020	5	1	
2	Site Preparation	Site Preparation	7/15/2020	7/15/2020	5	1	
3	Grading	Grading	7/29/2020	7/29/2020	5	1	
4	Building Construction	Building Construction	9/9/2020	9/9/2020	5	1	
5	Paving	Paving	11/3/2020	11/3/2020	5	1	
6	Architectural Coating	Architectural Coating	12/1/2020	12/1/2020	5	1	

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 11.1**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 347,504; Non-Residential Outdoor: 115,835; Striped Parking Area: 29,015 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	117.00	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	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**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	1.6600e-003	0.0166	0.0109	2.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	1.6999	1.6999	4.8000e-004	0.0000	1.7119
<b>Total</b>	<b>1.6600e-003</b>	<b>0.0166</b>	<b>0.0109</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>7.7000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>1.6999</b>	<b>1.6999</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.7119</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0690	0.0690	0.0000	0.0000	0.0690
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0690</b>	<b>0.0690</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</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	1.6600e-003	0.0166	0.0109	2.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	1.6999	1.6999	4.8000e-004	0.0000	1.7119
<b>Total</b>	<b>1.6600e-003</b>	<b>0.0166</b>	<b>0.0109</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>7.7000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>1.6999</b>	<b>1.6999</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.7119</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0690	0.0690	0.0000	0.0000	0.0690
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0690</b>	<b>0.0690</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</b>

**3.3 Site Preparation - 2020**

**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					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e-003	0.0212	0.0108	2.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	1.6715	1.6715	5.4000e-004	0.0000	1.6851
<b>Total</b>	<b>2.0400e-003</b>	<b>0.0212</b>	<b>0.0108</b>	<b>2.0000e-005</b>	<b>9.0300e-003</b>	<b>1.1000e-003</b>	<b>0.0101</b>	<b>4.9700e-003</b>	<b>1.0100e-003</b>	<b>5.9800e-003</b>	<b>0.0000</b>	<b>1.6715</b>	<b>1.6715</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6851</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0828	0.0828	0.0000	0.0000	0.0828
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0828</b>	<b>0.0828</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0828</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					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e-003	0.0212	0.0108	2.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	1.6715	1.6715	5.4000e-004	0.0000	1.6851
<b>Total</b>	<b>2.0400e-003</b>	<b>0.0212</b>	<b>0.0108</b>	<b>2.0000e-005</b>	<b>9.0300e-003</b>	<b>1.1000e-003</b>	<b>0.0101</b>	<b>4.9700e-003</b>	<b>1.0100e-003</b>	<b>5.9800e-003</b>	<b>0.0000</b>	<b>1.6715</b>	<b>1.6715</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6851</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0828	0.0828	0.0000	0.0000	0.0828
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0828</b>	<b>0.0828</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0828</b>

**3.4 Grading - 2020**

**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					0.0428	0.0000	0.0428	5.9500e-003	0.0000	5.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2300e-003	0.0251	0.0160	3.0000e-005		1.0900e-003	1.0900e-003		1.0000e-003	1.0000e-003	0.0000	2.7242	2.7242	8.8000e-004	0.0000	2.7462
<b>Total</b>	<b>2.2300e-003</b>	<b>0.0251</b>	<b>0.0160</b>	<b>3.0000e-005</b>	<b>0.0428</b>	<b>1.0900e-003</b>	<b>0.0439</b>	<b>5.9500e-003</b>	<b>1.0000e-003</b>	<b>6.9500e-003</b>	<b>0.0000</b>	<b>2.7242</b>	<b>2.7242</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.7462</b>

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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0920	0.0920	0.0000	0.0000	0.0920
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0920</b>	<b>0.0920</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0920</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					0.0428	0.0000	0.0428	5.9500e-003	0.0000	5.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2300e-003	0.0251	0.0160	3.0000e-005		1.0900e-003	1.0900e-003		1.0000e-003	1.0000e-003	0.0000	2.7242	2.7242	8.8000e-004	0.0000	2.7462
<b>Total</b>	<b>2.2300e-003</b>	<b>0.0251</b>	<b>0.0160</b>	<b>3.0000e-005</b>	<b>0.0428</b>	<b>1.0900e-003</b>	<b>0.0439</b>	<b>5.9500e-003</b>	<b>1.0000e-003</b>	<b>6.9500e-003</b>	<b>0.0000</b>	<b>2.7242</b>	<b>2.7242</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.7462</b>

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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0920	0.0920	0.0000	0.0000	0.0920
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0920</b>	<b>0.0920</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0920</b>

**3.5 Building Construction - 2020**

**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	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004	0.0000	1.1581	1.1581	2.8000e-004	0.0000	1.1651
<b>Total</b>	<b>1.0600e-003</b>	<b>9.5900e-003</b>	<b>8.4200e-003</b>	<b>1.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.1581</b>	<b>1.1581</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>1.1651</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	6.0800e-003	1.1900e-003	2.0000e-005	3.7000e-004	3.0000e-005	4.0000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4384	1.4384	1.1000e-004	0.0000	1.4413
Worker	6.9000e-004	4.8000e-004	5.1600e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3794	1.3794	3.0000e-005	0.0000	1.3803
<b>Total</b>	<b>8.6000e-004</b>	<b>6.5600e-003</b>	<b>6.3500e-003</b>	<b>4.0000e-005</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>5.5000e-004</b>	<b>4.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.8178</b>	<b>2.8178</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.8216</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	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004	0.0000	1.1581	1.1581	2.8000e-004	0.0000	1.1651
<b>Total</b>	<b>1.0600e-003</b>	<b>9.5900e-003</b>	<b>8.4200e-003</b>	<b>1.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.1581</b>	<b>1.1581</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>1.1651</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	6.0800e-003	1.1900e-003	2.0000e-005	3.7000e-004	3.0000e-005	4.0000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4384	1.4384	1.1000e-004	0.0000	1.4413
Worker	6.9000e-004	4.8000e-004	5.1600e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3794	1.3794	3.0000e-005	0.0000	1.3803
<b>Total</b>	<b>8.6000e-004</b>	<b>6.5600e-003</b>	<b>6.3500e-003</b>	<b>4.0000e-005</b>	<b>2.0200e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>5.5000e-004</b>	<b>4.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.8178</b>	<b>2.8178</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.8216</b>

**3.6 Paving - 2020**

**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	6.8000e-004	7.0300e-003	7.3300e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.5000e-004	3.5000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095
Paving	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0152</b>	<b>7.0300e-003</b>	<b>7.3300e-003</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0014</b>	<b>1.0014</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0095</b>

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**3.6 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0690	0.0690	0.0000	0.0000	0.0690
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0690</b>	<b>0.0690</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</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	6.8000e-004	7.0300e-003	7.3300e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.5000e-004	3.5000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095
Paving	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0152</b>	<b>7.0300e-003</b>	<b>7.3300e-003</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0014</b>	<b>1.0014</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0095</b>

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**3.6 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0690	0.0690	0.0000	0.0000	0.0690
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0690</b>	<b>0.0690</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0690</b>

**3.7 Architectural Coating - 2020**

**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	1.1410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	8.4000e-004	9.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
<b>Total</b>	<b>1.1412</b>	<b>8.4000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1277</b>	<b>0.1277</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1279</b>

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**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2759</b>	<b>0.2759</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2761</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	1.1410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	8.4000e-004	9.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
<b>Total</b>	<b>1.1412</b>	<b>8.4000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1277</b>	<b>0.1277</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1279</b>

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**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2759</b>	<b>0.2759</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2761</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3159	2.7846	4.4300	0.0198	1.5394	0.0146	1.5540	0.4125	0.0137	0.4261	0.0000	1,832.5967	1,832.5967	0.0842	0.0000	1,834.7025
Unmitigated	0.3159	2.7846	4.4300	0.0198	1.5394	0.0146	1.5540	0.4125	0.0137	0.4261	0.0000	1,832.5967	1,832.5967	0.0842	0.0000	1,834.7025

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	910.46	910.46	910.46	4,031,766	4,031,766
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	910.46	910.46	910.46	4,031,766	4,031,766

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**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	749.2193	749.2193	0.0309	6.4000e-003	751.8996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	749.2193	749.2193	0.0309	6.4000e-003	751.8996
NaturalGas Mitigated	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	401.6654	401.6654	7.7000e-003	7.3600e-003	404.0523
NaturalGas Unmitigated	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	401.6654	401.6654	7.7000e-003	7.3600e-003	404.0523

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	7.52693e+006	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	401.6654	401.6654	7.7000e-003	7.3600e-003	404.0523
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0406</b>	<b>0.3690</b>	<b>0.3099</b>	<b>2.2100e-003</b>		<b>0.0280</b>	<b>0.0280</b>		<b>0.0280</b>	<b>0.0280</b>	<b>0.0000</b>	<b>401.6654</b>	<b>401.6654</b>	<b>7.7000e-003</b>	<b>7.3600e-003</b>	<b>404.0523</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					
Manufacturing	7.52693e+006	0.0406	0.3690	0.3099	2.2100e-003		0.0280	0.0280		0.0280	0.0280	0.0000	401.6654	401.6654	7.7000e-003	7.3600e-003	404.0523
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0406</b>	<b>0.3690</b>	<b>0.3099</b>	<b>2.2100e-003</b>		<b>0.0280</b>	<b>0.0280</b>		<b>0.0280</b>	<b>0.0280</b>	<b>0.0000</b>	<b>401.6654</b>	<b>401.6654</b>	<b>7.7000e-003</b>	<b>7.3600e-003</b>	<b>404.0523</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			
Manufacturing	2.35144e+006	749.2193	0.0309	6.4000e-003	751.8996
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>749.2193</b>	<b>0.0309</b>	<b>6.4000e-003</b>	<b>751.8996</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	2.35144e+006	749.2193	0.0309	6.4000e-003	751.8996
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>749.2193</b>	<b>0.0309</b>	<b>6.4000e-003</b>	<b>751.8996</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.9834	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189
Unmitigated	0.9834	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189

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	0.1141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8684					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189
<b>Total</b>	<b>0.9834</b>	<b>8.0000e-005</b>	<b>9.1600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0178</b>	<b>0.0178</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0189</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	0.1141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8684					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0178	0.0178	5.0000e-005	0.0000	0.0189
<b>Total</b>	<b>0.9834</b>	<b>8.0000e-005</b>	<b>9.1600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0178</b>	<b>0.0178</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0189</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	239.2613	1.7549	0.0431	295.9825
Unmitigated	239.2613	1.7549	0.0431	295.9825

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	53.5737 / 0	239.2613	1.7549	0.0431	295.9825
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>239.2613</b>	<b>1.7549</b>	<b>0.0431</b>	<b>295.9825</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	53.5737 / 0	239.2613	1.7549	0.0431	295.9825
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>239.2613</b>	<b>1.7549</b>	<b>0.0431</b>	<b>295.9825</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	58.3132	3.4462	0.0000	144.4685
Unmitigated	58.3132	3.4462	0.0000	144.4685

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	287.27	58.3132	3.4462	0.0000	144.4685
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>58.3132</b>	<b>3.4462</b>	<b>0.0000</b>	<b>144.4685</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	287.27	58.3132	3.4462	0.0000	144.4685
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>58.3132</b>	<b>3.4462</b>	<b>0.0000</b>	<b>144.4685</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Annual

**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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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**Hemet S2A Modular Factory (Ops)**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	231.67	1000sqft	5.32	231,669.00	0
Other Asphalt Surfaces	483.59	1000sqft	11.10	483,586.00	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>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use -

Construction Phase - Ops run - not for const emissions; see other model runs.

Vehicle Trips - Trip generation updated to reflect rate in TIA prepared for the project by Ganddini Group, Inc. (Table 2; 983 trips / 250 TSF = 3.93).

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	30.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	12/28/2021	12/1/2020
tblConstructionPhase	PhaseEndDate	11/2/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	7/14/2020	6/17/2020
tblConstructionPhase	PhaseEndDate	9/8/2020	7/29/2020
tblConstructionPhase	PhaseEndDate	11/30/2021	11/3/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	7/15/2020
tblConstructionPhase	PhaseStartDate	12/1/2021	12/1/2020
tblConstructionPhase	PhaseStartDate	11/3/2021	11/3/2020
tblGrading	AcresOfGrading	2.50	75.00
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	3.82	3.93

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Energy	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Mobile	2.0189	14.9369	27.6098	0.1154	8.5987	0.0798	8.6785	2.3007	0.0749	2.3757		11,755.4468	11,755.4468	0.5136		11,768.2879
<b>Total</b>	<b>7.6317</b>	<b>16.9593</b>	<b>29.3814</b>	<b>0.1275</b>	<b>8.5987</b>	<b>0.2337</b>	<b>8.8324</b>	<b>2.3007</b>	<b>0.2288</b>	<b>2.5296</b>		<b>14,181.6874</b>	<b>14,181.6874</b>	<b>0.5606</b>	<b>0.0445</b>	<b>14,208.9559</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	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Energy	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Mobile	2.0189	14.9369	27.6098	0.1154	8.5987	0.0798	8.6785	2.3007	0.0749	2.3757		11,755.4468	11,755.4468	0.5136		11,768.2879
<b>Total</b>	<b>7.6317</b>	<b>16.9593</b>	<b>29.3814</b>	<b>0.1275</b>	<b>8.5987</b>	<b>0.2337</b>	<b>8.8324</b>	<b>2.3007</b>	<b>0.2288</b>	<b>2.5296</b>		<b>14,181.6874</b>	<b>14,181.6874</b>	<b>0.5606</b>	<b>0.0445</b>	<b>14,208.9559</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2020	6/17/2020	5	1	
2	Site Preparation	Site Preparation	7/15/2020	7/15/2020	5	1	
3	Grading	Grading	7/29/2020	7/29/2020	5	1	
4	Building Construction	Building Construction	9/9/2020	9/9/2020	5	1	
5	Paving	Paving	11/3/2020	11/3/2020	5	1	
6	Architectural Coating	Architectural Coating	12/1/2020	12/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 11.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 347,504; Non-Residential Outdoor: 115,835; Striped Parking Area: 29,015 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	117.00	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	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.2 Demolition - 2020**

**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
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
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
<b>Total</b>	<b>0.0763</b>	<b>0.0451</b>	<b>0.6048</b>	<b>1.6600e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>165.2392</b>	<b>165.2392</b>	<b>4.2400e-003</b>		<b>165.3451</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.2 Demolition - 2020**

**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
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
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
<b>Total</b>	<b>0.0763</b>	<b>0.0451</b>	<b>0.6048</b>	<b>1.6600e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>165.2392</b>	<b>165.2392</b>	<b>4.2400e-003</b>		<b>165.3451</b>

**3.3 Site Preparation - 2020**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.3 Site Preparation - 2020**

**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
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
Worker	0.0916	0.0542	0.7258	1.9900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		198.2870	198.2870	5.0800e-003		198.4141
<b>Total</b>	<b>0.0916</b>	<b>0.0542</b>	<b>0.7258</b>	<b>1.9900e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>198.2870</b>	<b>198.2870</b>	<b>5.0800e-003</b>		<b>198.4141</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.3 Site Preparation - 2020**

**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
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
Worker	0.0916	0.0542	0.7258	1.9900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		198.2870	198.2870	5.0800e-003		198.4141
<b>Total</b>	<b>0.0916</b>	<b>0.0542</b>	<b>0.7258</b>	<b>1.9900e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>198.2870</b>	<b>198.2870</b>	<b>5.0800e-003</b>		<b>198.4141</b>

**3.4 Grading - 2020**

**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					85.5596	0.0000	85.5596	11.8984	0.0000	11.8984			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>85.5596</b>	<b>2.1739</b>	<b>87.7335</b>	<b>11.8984</b>	<b>2.0000</b>	<b>13.8984</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.4 Grading - 2020**

**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
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
Worker	0.1018	0.0602	0.8064	2.2100e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		220.3189	220.3189	5.6500e-003		220.4601
<b>Total</b>	<b>0.1018</b>	<b>0.0602</b>	<b>0.8064</b>	<b>2.2100e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2500e-003</b>	<b>0.0605</b>		<b>220.3189</b>	<b>220.3189</b>	<b>5.6500e-003</b>		<b>220.4601</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					85.5596	0.0000	85.5596	11.8984	0.0000	11.8984			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>85.5596</b>	<b>2.1739</b>	<b>87.7335</b>	<b>11.8984</b>	<b>2.0000</b>	<b>13.8984</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.4 Grading - 2020**

**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
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
Worker	0.1018	0.0602	0.8064	2.2100e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		220.3189	220.3189	5.6500e-003		220.4601
<b>Total</b>	<b>0.1018</b>	<b>0.0602</b>	<b>0.8064</b>	<b>2.2100e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2500e-003</b>	<b>0.0605</b>		<b>220.3189</b>	<b>220.3189</b>	<b>5.6500e-003</b>		<b>220.4601</b>

**3.5 Building Construction - 2020**

**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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.5 Building Construction - 2020**

**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
Vendor	0.3261	12.0383	2.2023	0.0306	0.7492	0.0685	0.8177	0.2157	0.0655	0.2812		3,222.0738	3,222.0738	0.2417		3,228.1156
Worker	1.5266	0.9029	12.0965	0.0332	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		3,304.7836	3,304.7836	0.0847		3,306.9014
<b>Total</b>	<b>1.8527</b>	<b>12.9412</b>	<b>14.2988</b>	<b>0.0637</b>	<b>4.1025</b>	<b>0.0888</b>	<b>4.1913</b>	<b>1.1050</b>	<b>0.0842</b>	<b>1.1892</b>		<b>6,526.8574</b>	<b>6,526.8574</b>	<b>0.3264</b>		<b>6,535.0169</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.5 Building Construction - 2020**

**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
Vendor	0.3261	12.0383	2.2023	0.0306	0.7492	0.0685	0.8177	0.2157	0.0655	0.2812		3,222.0738	3,222.0738	0.2417		3,228.1156
Worker	1.5266	0.9029	12.0965	0.0332	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		3,304.7836	3,304.7836	0.0847		3,306.9014
<b>Total</b>	<b>1.8527</b>	<b>12.9412</b>	<b>14.2988</b>	<b>0.0637</b>	<b>4.1025</b>	<b>0.0888</b>	<b>4.1913</b>	<b>1.1050</b>	<b>0.0842</b>	<b>1.1892</b>		<b>6,526.8574</b>	<b>6,526.8574</b>	<b>0.3264</b>		<b>6,535.0169</b>

**3.6 Paving - 2020**

**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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	29.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>30.4386</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.6 Paving - 2020**

**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
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
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
<b>Total</b>	<b>0.0763</b>	<b>0.0451</b>	<b>0.6048</b>	<b>1.6600e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>165.2392</b>	<b>165.2392</b>	<b>4.2400e-003</b>		<b>165.3451</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	29.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>30.4386</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.6 Paving - 2020**

**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
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
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
<b>Total</b>	<b>0.0763</b>	<b>0.0451</b>	<b>0.6048</b>	<b>1.6600e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>165.2392</b>	<b>165.2392</b>	<b>4.2400e-003</b>		<b>165.3451</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2,282.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>2,282.3030</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2020**

**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
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
Worker	0.3053	0.1806	2.4193	6.6400e-003	0.6707	4.0600e-003	0.6747	0.1779	3.7400e-003	0.1816		660.9567	660.9567	0.0169		661.3803
<b>Total</b>	<b>0.3053</b>	<b>0.1806</b>	<b>2.4193</b>	<b>6.6400e-003</b>	<b>0.6707</b>	<b>4.0600e-003</b>	<b>0.6747</b>	<b>0.1779</b>	<b>3.7400e-003</b>	<b>0.1816</b>		<b>660.9567</b>	<b>660.9567</b>	<b>0.0169</b>		<b>661.3803</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2,282.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>2,282.3030</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**3.7 Architectural Coating - 2020**

**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
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
Worker	0.3053	0.1806	2.4193	6.6400e-003	0.6707	4.0600e-003	0.6747	0.1779	3.7400e-003	0.1816		660.9567	660.9567	0.0169		661.3803
<b>Total</b>	<b>0.3053</b>	<b>0.1806</b>	<b>2.4193</b>	<b>6.6400e-003</b>	<b>0.6707</b>	<b>4.0600e-003</b>	<b>0.6747</b>	<b>0.1779</b>	<b>3.7400e-003</b>	<b>0.1816</b>		<b>660.9567</b>	<b>660.9567</b>	<b>0.0169</b>		<b>661.3803</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0189	14.9369	27.6098	0.1154	8.5987	0.0798	8.6785	2.3007	0.0749	2.3757		11,755.4468	11,755.4468	0.5136		11,768.2879
Unmitigated	2.0189	14.9369	27.6098	0.1154	8.5987	0.0798	8.6785	2.3007	0.0749	2.3757		11,755.4468	11,755.4468	0.5136		11,768.2879

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	910.46	910.46	910.46	4,031,766	4,031,766
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	910.46	910.46	910.46	4,031,766	4,031,766

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
NaturalGas Unmitigated	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	20621.7	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2224</b>	<b>2.0217</b>	<b>1.6983</b>	<b>0.0121</b>		<b>0.1537</b>	<b>0.1537</b>		<b>0.1537</b>	<b>0.1537</b>		<b>2,426.0841</b>	<b>2,426.0841</b>	<b>0.0465</b>	<b>0.0445</b>	<b>2,440.5011</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					
Manufacturing	20.6217	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2224</b>	<b>2.0217</b>	<b>1.6983</b>	<b>0.0121</b>		<b>0.1537</b>	<b>0.1537</b>		<b>0.1537</b>	<b>0.1537</b>		<b>2,426.0841</b>	<b>2,426.0841</b>	<b>0.0465</b>	<b>0.0445</b>	<b>2,440.5011</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Unmitigated	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669

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	0.6252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8500e-003	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
<b>Total</b>	<b>5.3904</b>	<b>6.7000e-004</b>	<b>0.0733</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>0.1565</b>	<b>0.1565</b>	<b>4.2000e-004</b>		<b>0.1669</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8500e-003	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
<b>Total</b>	<b>5.3904</b>	<b>6.7000e-004</b>	<b>0.0733</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>0.1565</b>	<b>0.1565</b>	<b>4.2000e-004</b>		<b>0.1669</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Summer

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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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**Hemet S2A Modular Factory (Ops)**  
**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	231.67	1000sqft	5.32	231,669.00	0
Other Asphalt Surfaces	483.59	1000sqft	11.10	483,586.00	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>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - MIG Modeler: Phil Gleason

Land Use -

Construction Phase - Ops run - not for const emissions; see other model runs.

Vehicle Trips - Trip generation updated to reflect rate in TIA prepared for the project by Ganddini Group, Inc. (Table 2; 983 trips / 250 TSF = 3.93).

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	30.00	1.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	12/28/2021	12/1/2020
tblConstructionPhase	PhaseEndDate	11/2/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	7/14/2020	6/17/2020
tblConstructionPhase	PhaseEndDate	9/8/2020	7/29/2020
tblConstructionPhase	PhaseEndDate	11/30/2021	11/3/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	7/15/2020
tblConstructionPhase	PhaseStartDate	12/1/2021	12/1/2020
tblConstructionPhase	PhaseStartDate	11/3/2021	11/3/2020
tblGrading	AcresOfGrading	2.50	75.00
tblVehicleTrips	ST_TR	1.49	3.93
tblVehicleTrips	SU_TR	0.62	3.93
tblVehicleTrips	WD_TR	3.82	3.93

## 2.0 Emissions Summary

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Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Energy	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Mobile	1.7298	15.0466	23.5055	0.1065	8.5987	0.0804	8.6792	2.3007	0.0755	2.3763		10,869.3768	10,869.3768	0.5220		10,882.4264
<b>Total</b>	<b>7.3426</b>	<b>17.0690</b>	<b>25.2771</b>	<b>0.1187</b>	<b>8.5987</b>	<b>0.2344</b>	<b>8.8331</b>	<b>2.3007</b>	<b>0.2294</b>	<b>2.5302</b>		<b>13,295.6174</b>	<b>13,295.6174</b>	<b>0.5689</b>	<b>0.0445</b>	<b>13,323.0944</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	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Energy	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Mobile	1.7298	15.0466	23.5055	0.1065	8.5987	0.0804	8.6792	2.3007	0.0755	2.3763		10,869.3768	10,869.3768	0.5220		10,882.4264
<b>Total</b>	<b>7.3426</b>	<b>17.0690</b>	<b>25.2771</b>	<b>0.1187</b>	<b>8.5987</b>	<b>0.2344</b>	<b>8.8331</b>	<b>2.3007</b>	<b>0.2294</b>	<b>2.5302</b>		<b>13,295.6174</b>	<b>13,295.6174</b>	<b>0.5689</b>	<b>0.0445</b>	<b>13,323.0944</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2020	6/17/2020	5	1	
2	Site Preparation	Site Preparation	7/15/2020	7/15/2020	5	1	
3	Grading	Grading	7/29/2020	7/29/2020	5	1	
4	Building Construction	Building Construction	9/9/2020	9/9/2020	5	1	
5	Paving	Paving	11/3/2020	11/3/2020	5	1	
6	Architectural Coating	Architectural Coating	12/1/2020	12/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 11.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 347,504; Non-Residential Outdoor: 115,835; Striped Parking Area: 29,015 (Architectural Coating – sqft)

#### OffRoad Equipment

## Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	300.00	117.00	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	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.2 Demolition - 2020**

**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
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
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
<b>Total</b>	<b>0.0748</b>	<b>0.0467</b>	<b>0.4893</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>148.2354</b>	<b>148.2354</b>	<b>3.6800e-003</b>		<b>148.3274</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.2 Demolition - 2020**

**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
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
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
<b>Total</b>	<b>0.0748</b>	<b>0.0467</b>	<b>0.4893</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>148.2354</b>	<b>148.2354</b>	<b>3.6800e-003</b>		<b>148.3274</b>

**3.3 Site Preparation - 2020**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.3 Site Preparation - 2020**

**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
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
Worker	0.0897	0.0560	0.5871	1.7900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		177.8824	177.8824	4.4200e-003		177.9929
<b>Total</b>	<b>0.0897</b>	<b>0.0560</b>	<b>0.5871</b>	<b>1.7900e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>177.8824</b>	<b>177.8824</b>	<b>4.4200e-003</b>		<b>177.9929</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.3 Site Preparation - 2020**

**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
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
Worker	0.0897	0.0560	0.5871	1.7900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		177.8824	177.8824	4.4200e-003		177.9929
<b>Total</b>	<b>0.0897</b>	<b>0.0560</b>	<b>0.5871</b>	<b>1.7900e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>177.8824</b>	<b>177.8824</b>	<b>4.4200e-003</b>		<b>177.9929</b>

**3.4 Grading - 2020**

**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					85.5596	0.0000	85.5596	11.8984	0.0000	11.8984			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>85.5596</b>	<b>2.1739</b>	<b>87.7335</b>	<b>11.8984</b>	<b>2.0000</b>	<b>13.8984</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.4 Grading - 2020**

**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
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
Worker	0.0997	0.0623	0.6524	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		197.6472	197.6472	4.9100e-003		197.7699
<b>Total</b>	<b>0.0997</b>	<b>0.0623</b>	<b>0.6524</b>	<b>1.9800e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2500e-003</b>	<b>0.0605</b>		<b>197.6472</b>	<b>197.6472</b>	<b>4.9100e-003</b>		<b>197.7699</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					85.5596	0.0000	85.5596	11.8984	0.0000	11.8984			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>85.5596</b>	<b>2.1739</b>	<b>87.7335</b>	<b>11.8984</b>	<b>2.0000</b>	<b>13.8984</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.4 Grading - 2020**

**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
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
Worker	0.0997	0.0623	0.6524	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		197.6472	197.6472	4.9100e-003		197.7699
<b>Total</b>	<b>0.0997</b>	<b>0.0623</b>	<b>0.6524</b>	<b>1.9800e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2500e-003</b>	<b>0.0605</b>		<b>197.6472</b>	<b>197.6472</b>	<b>4.9100e-003</b>		<b>197.7699</b>

**3.5 Building Construction - 2020**

**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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.5 Building Construction - 2020**

**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
Vendor	0.3440	11.9753	2.5787	0.0294	0.7492	0.0693	0.8185	0.2157	0.0663	0.2820		3,101.0003	3,101.0003	0.2689		3,107.7235
Worker	1.4951	0.9340	9.7852	0.0298	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		2,964.7074	2,964.7074	0.0736		2,966.5483
<b>Total</b>	<b>1.8390</b>	<b>12.9093</b>	<b>12.3639</b>	<b>0.0592</b>	<b>4.1025</b>	<b>0.0896</b>	<b>4.1921</b>	<b>1.1050</b>	<b>0.0850</b>	<b>1.1900</b>		<b>6,065.7077</b>	<b>6,065.7077</b>	<b>0.3426</b>		<b>6,074.2718</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.5 Building Construction - 2020**

**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
Vendor	0.3440	11.9753	2.5787	0.0294	0.7492	0.0693	0.8185	0.2157	0.0663	0.2820		3,101.000 3	3,101.000 3	0.2689		3,107.723 5
Worker	1.4951	0.9340	9.7852	0.0298	3.3533	0.0203	3.3736	0.8893	0.0187	0.9080		2,964.707 4	2,964.707 4	0.0736		2,966.548 3
<b>Total</b>	<b>1.8390</b>	<b>12.9093</b>	<b>12.3639</b>	<b>0.0592</b>	<b>4.1025</b>	<b>0.0896</b>	<b>4.1921</b>	<b>1.1050</b>	<b>0.0850</b>	<b>1.1900</b>		<b>6,065.707 7</b>	<b>6,065.707 7</b>	<b>0.3426</b>		<b>6,074.271 8</b>

**3.6 Paving - 2020**

**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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	29.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>30.4386</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.733 4</b>	<b>2,207.733 4</b>	<b>0.7140</b>		<b>2,225.584 1</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.6 Paving - 2020**

**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
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
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
<b>Total</b>	<b>0.0748</b>	<b>0.0467</b>	<b>0.4893</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>148.2354</b>	<b>148.2354</b>	<b>3.6800e-003</b>		<b>148.3274</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	29.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>30.4386</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.6 Paving - 2020**

**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
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
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
<b>Total</b>	<b>0.0748</b>	<b>0.0467</b>	<b>0.4893</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>1.0200e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>148.2354</b>	<b>148.2354</b>	<b>3.6800e-003</b>		<b>148.3274</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2,282.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>2,282.3030</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2020**

**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
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
Worker	0.2990	0.1868	1.9570	5.9500e-003	0.6707	4.0600e-003	0.6747	0.1779	3.7400e-003	0.1816		592.9415	592.9415	0.0147		593.3097
<b>Total</b>	<b>0.2990</b>	<b>0.1868</b>	<b>1.9570</b>	<b>5.9500e-003</b>	<b>0.6707</b>	<b>4.0600e-003</b>	<b>0.6747</b>	<b>0.1779</b>	<b>3.7400e-003</b>	<b>0.1816</b>		<b>592.9415</b>	<b>592.9415</b>	<b>0.0147</b>		<b>593.3097</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2,282.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>2,282.3030</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**3.7 Architectural Coating - 2020**

**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
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
Worker	0.2990	0.1868	1.9570	5.9500e-003	0.6707	4.0600e-003	0.6747	0.1779	3.7400e-003	0.1816		592.9415	592.9415	0.0147		593.3097
<b>Total</b>	<b>0.2990</b>	<b>0.1868</b>	<b>1.9570</b>	<b>5.9500e-003</b>	<b>0.6707</b>	<b>4.0600e-003</b>	<b>0.6747</b>	<b>0.1779</b>	<b>3.7400e-003</b>	<b>0.1816</b>		<b>592.9415</b>	<b>592.9415</b>	<b>0.0147</b>		<b>593.3097</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7298	15.0466	23.5055	0.1065	8.5987	0.0804	8.6792	2.3007	0.0755	2.3763		10,869.3768	10,869.3768	0.5220		10,882.4264
Unmitigated	1.7298	15.0466	23.5055	0.1065	8.5987	0.0804	8.6792	2.3007	0.0755	2.3763		10,869.3768	10,869.3768	0.5220		10,882.4264

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	910.46	910.46	910.46	4,031,766	4,031,766
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	910.46	910.46	910.46	4,031,766	4,031,766

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
NaturalGas Unmitigated	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	20621.7	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2224</b>	<b>2.0217</b>	<b>1.6983</b>	<b>0.0121</b>		<b>0.1537</b>	<b>0.1537</b>		<b>0.1537</b>	<b>0.1537</b>		<b>2,426.0841</b>	<b>2,426.0841</b>	<b>0.0465</b>	<b>0.0445</b>	<b>2,440.5011</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					
Manufacturing	20.6217	0.2224	2.0217	1.6983	0.0121		0.1537	0.1537		0.1537	0.1537		2,426.0841	2,426.0841	0.0465	0.0445	2,440.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2224</b>	<b>2.0217</b>	<b>1.6983</b>	<b>0.0121</b>		<b>0.1537</b>	<b>0.1537</b>		<b>0.1537</b>	<b>0.1537</b>		<b>2,426.0841</b>	<b>2,426.0841</b>	<b>0.0465</b>	<b>0.0445</b>	<b>2,440.5011</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
Unmitigated	5.3904	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669

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	0.6252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8500e-003	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
<b>Total</b>	<b>5.3904</b>	<b>6.7000e-004</b>	<b>0.0733</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>0.1565</b>	<b>0.1565</b>	<b>4.2000e-004</b>		<b>0.1669</b>

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6252					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7583					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8500e-003	6.7000e-004	0.0733	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1565	0.1565	4.2000e-004		0.1669
<b>Total</b>	<b>5.3904</b>	<b>6.7000e-004</b>	<b>0.0733</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>0.1565</b>	<b>0.1565</b>	<b>4.2000e-004</b>		<b>0.1669</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
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Hemet S2A Modular Factory (Ops) - Riverside-South Coast County, Winter

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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**Attachment 3**  
**Fuel Consumption Estimate Spreadsheets**

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**Energy Appendix: Fuel Consumption Estimations**  
**Hemet S2A Modular Factory**  
**Hemet, CA**  
**Prepared by MIG, Inc. June 2020**

**Sheet 1: Construction and Operational Fuel Consumption Summary**

**Table 1: Construction Fuel Consumption**

<b>Activity</b>	<b>Gasoline</b>	<b>Diesel</b>
On-site	-	82072.53
Off-site	40,280	25,294
Total	40,280	107,367

**Table 2: Operational Fuel Consumption**

<b>Trip Type</b>	<b>Gasoline</b>	<b>Diesel</b>
Project Totals	139,053	0

**Sheet 2: Construction On-site Fuel Consumption Estimations**

**Table 1: On-site Fuel Consumption Summary**

Phase	Quantity of Diesel (gal)
1	50,478
2	31,594
Total	82,073

**Table 2: Phase 1 On-site Construction Fuel Consumption Estimates**

Phase	Days	Equipment	# of Pieces	Hr/Day	Horsepower	Load Factor	Runtime (bhp-hr)	Consumption (bhp-hr/gal) <sup>1</sup>	Gallons of Diesel
Grading	21	Excavators	3	7.6	158	0.38	28,747	18.5	1,554
		Graders	2	5.7	187	0.41	18,355		992
		Rubber Tired Dozers	2	5.7	247	0.40	23,653		1,279
		Scrapers	3	7.6	367	0.48	84,345		4,559
		Tractors/Loaders/Backhoes	3	7.6	97	0.37	17,184		929
Building Construction	88	Cranes	4	6.0	231	0.29	141,483		7,648
		Forklifts	11	7.4	89	0.20	127,505		6,892
		Generator Sets	4	7.4	84	0.74	161,914		8,752
		Tractors/Loaders/Backhoes	11	6.8	97	0.37	236,242		12,770
		Welders	4	6.5	46	0.45	47,362		2,560
Paving	11	Pavers	4	7.3	130	0.42	17,538	948	
		Paving Equipment	4	7.3	132	0.36	15,263	825	
		Rollers	4	7.3	80	0.38	9,764	528	
Architectural Coating	10	Air Compressors	2	6.0	78	0.48	4,493	243	
Total									50,478

<sup>1</sup> The Carl Moyer Program Guidelines 2017 Revisions. Table D-21. Approved by the Board April 27, 2017.

**Table 3: Phase 2 On-site Construction Fuel Consumption Estimates**

Phase	Days	Equipment	# of Pieces	Hr/Day	Horsepower	Load Factor	Runtime (bhp-hr)	Consumption (bhp-hr/gal) <sup>1</sup>	Gallons of Diesel
Grading	8	Excavators	1	1.0	158	0.38	480	18.5	26
		Graders	1	1.0	187	0.41	613		33
		Rubber Tired Dozers	1	1.0	247	0.40	790		43
		Tractors/Loaders/Backhoes	3	3.0	97	0.37	2,584		140
Building Construction	65	Cranes	4	6.2	231	0.29	107,988		5,837
		Forklifts	11	7.7	89	0.20	97,998		5,297
		Generator Sets	4	7.1	84	0.74	114,747		6,203
		Tractors/Loaders/Backhoes	10	7.4	97	0.37	172,631		9,331
		Welders	4	7.1	46	0.45	38,212		2,066
Paving	18	Cement and Mortar Mixers	2	6.0	9	0.56	1,089		59
		Pavers	1	8.0	130	0.42	7,862	425	
		Paving Equipment	2	6.0	132	0.36	10,264	555	
		Rollers	4	7.3	80	0.38	15,978	864	
		Tractors/Loaders/Backhoes	1	8.0	97	0.37	5,168	279	
Architectural Coating	18	Air Compressors	2	6.0	78	0.48	8,087	437	
<b>Total</b>									<b>31,594</b>

<sup>1</sup> The Carl Moyer Program Guidelines 2017 Revisions. Table D-21. Approved by the Board April 27, 2017.

Sheet 3: Construction Off-site Fuel Consumption Estimates

**Table 1: On-site Fuel Consumption Summary**

Phase	Quantity of Gasoline (gal)	Quantity of Diesel (gal)
1	35,781	19,675
2	4,499	5,620
Total	40,280	25,294

**Table 2: Phase 1 Off-site Construction Fuel Consumption Estimates**

Phase	Days	Number of Trips	Dist (mi)	Total VMT	Vehicle Class	% of Workers by Vehicle Class	Gasoline Average Fuel Economy (MPG)	Gasoline Fuel Split	Gasoline Fuel Consumption by Class (gal)	Gasoline Fuel Consumption by Phase (gal)	Diesel Average Fuel Economy (MPG)	Diesel Fuel Split	Diesel Fuel Consumption by Class (gal)	Diesel Fuel Consumption by Phase (gal)
<i>Worker Trips</i>														
Grading	21	48	14.7	14818	LDA	0.5	31.3	99.1%	234	521	50.9	0.9%	1	2
					LDT1	0.25	26.7	99.9%	139		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	148		38.1	0.5%	1	
Building Construction	88	723	14.7	935273	LDA	0.5	31.3	99.1%	14,792	32,898	50.9	0.9%	84	121
					LDT1	0.25	26.7	99.9%	8,764		25.4	0.1%	5	
					LDT2	0.25	24.9	99.5%	9,342		38.1	0.5%	32	
Paving	11	55	14.7	8893.5	LDA	0.5	31.3	99.1%	141	313	50.9	0.9%	1	1
					LDT1	0.25	26.7	99.9%	83		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	89		38.1	0.5%	0	
Architectural Coating	10	84	14.7	12348	LDA	0.5	31.3	99.1%	195	434	50.9	0.9%	1	2
					LDT1	0.25	26.7	99.9%	116		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	123		38.1	0.5%	0	
Sub-Total Worker Trips Energy Consumption									Gasoline (gal)	34,167	Diesel (gal)			126
<i>Vendor Trips</i>														
Building Construction	88	283	6.9	171838	MHDT	0.5	5.2	0.1	1,615	1,615	10.8	0.9	7,194	19,549
					HHDT	0.5	N/A	0.0%	N/A		7.0	100.0%	12,355	
<b>Total On-Road Construction Trips Genenergy Usage</b>							<b>Gasoline (gal)</b>			<b>35,781</b>	<b>Diesel (gal)</b>			<b>19,675</b>

**Table 3: Phase 1 Off-site Construction Fuel Consumption Estimates**

Phase	Days	Number of Trips	Dist (mi)	Total VMT	Vehicle Class	% of Workers by Vehicle Class	Gasoline Average Fuel Economy (MPG)	Gasoline Fuel Split	Gasoline Fuel Consumption by Class (gal)	Gasoline Fuel Consumption by Phase (gal)	Diesel Average Fuel Economy (MPG)	Diesel Fuel Split	Diesel Fuel Consumption by Class (gal)	Diesel Fuel Consumption by Phase (gal)
<i>Worker Trips</i>														
Grading	8	15	14.7	1764	LDA	0.5	31.3	99.1%	28	62	50.9	0.9%	0	0
					LDT1	0.25	26.7	99.9%	17		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	18		38.1	0.5%	0	
Building Construction	65	108	14.7	103194	LDA	0.5	31.3	99.1%	1,632	3,630	50.9	0.9%	9	13
					LDT1	0.25	26.7	99.9%	967		25.4	0.1%	1	
					LDT2	0.25	24.9	99.5%	1,031		38.1	0.5%	4	
Paving	18	15	14.7	3969	LDA	0.5	31.3	99.1%	63	140	50.9	0.9%	0	1
					LDT1	0.25	26.7	99.9%	37		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	40		38.1	0.5%	0	
Architectural Coating	18	22	14.7	5821.2	LDA	0.5	31.3	99.1%	92	205	50.9	0.9%	1	1
					LDT1	0.25	26.7	99.9%	55		25.4	0.1%	0	
					LDT2	0.25	24.9	99.5%	58		38.1	0.5%	0	
Sub-Total Worker Trips Energy Consumption							Gasoline (gal)			4,036	Diesel (gal)			15
<i>Vendor Trips</i>														
Building Construction	170	42	6.9	49266	MHDT	0.5	5.2	9.7%	463	463	10.8	90.3%	2,062	5,605
					HHDT	0.5	N/A	0.0%	N/A		7.0	100.0%	3,542	
<b>Total On-Road Construction Trips Genery Usage</b>							<b>Gasoline (gal)</b>			<b>4,499</b>	<b>Diesel (gal)</b>			<b>5,620</b>

**Sheet 4: Operational Fuel Consumption**

**Table 1: Fuel Consumption Characteristics for Riverside-South Coast (2021)**

Fuel	Characteristic	
	% of VMT	MPG
Gasoline	91.1%	26.4
Diesel	8.9%	9.7

Source: EMFAC2017

**Table 2: Project Annual Fuel Consumption**

Fuel Type	Annual VMT	Consumption
Gasoline	4,031,766	139,053
Diesel		37,011

Source: CalEEMod, Section 4.2 (see Appendix A)