

## **Appendix B. Air Quality Memo**

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# TECHNICAL MEMORANDUM

**To:** Amanda Acuna, Senior Planner, City of Gardena  
**From:** Sharon Toland, Project Manager, Harris & Associates  
**Subject:** Hitco Project – Air Quality Impact Analysis  
**Date:** June 6, 2022  
**CC:** William Halligan, Esq., Senior Director/Senior Environmental Counsel, Harris & Associates  
**Att:** 1, CalEEMod Results

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Dear Ms. Acuna,

The following presents the results of Harris & Associates' analysis of potential air quality impacts from implementation of the Hitco Project (Project). The project site is at 1600 W. 135th Street, between Western Avenue and Normandie Avenue, in the City of Gardena (City). The property consists of two parcels (Assessor's Parcel Numbers 6102-013-026 and 6102-013-027) and is composed of 8.46 acres. The project involves the demolition of all existing on-site buildings, parking lots, and associated improvements and consists of a new 190,860-square-foot tilt-up concrete industrial building. This building would accommodate up to two tenants with a variety of uses, including light assembly, manufacturing, e-commerce, and warehousing/distribution. Project implementation requires a site plan review, lot line adjustment, and conditional use permit to allow for warehousing uses.

## Background

Air quality laws and regulations have historically divided air pollutants into two broad categories: criteria air pollutants and non-criteria pollutants, or toxic air contaminants (TACs). Criteria air pollutants are a group of common air pollutants regulated by the federal and state governments by means of ambient air standards based on criteria regarding health and environmental effects of pollution (USEPA 2021a). TACs are pollutants with potential to cause significant adverse health effects. In California, unlike the air quality standards for criteria pollutants to protect health and the environment, the California Air Resources Board identifies exposure thresholds for TACs that indicate levels below which no significant adverse health effects are anticipated from exposure to the identified substance. However, thresholds are not specified for TACs that have been found to have no safe exposure level or where insufficient data is available to identify an exposure threshold (CARB 2022a).

The criteria air pollutants pertinent to the analysis in this memorandum are carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), ozone (O<sub>3</sub>), particulate matter, and sulfur dioxide (SO<sub>2</sub>). The following describes the health effects of these criteria air pollutants.

## Carbon Monoxide

CO is a colorless, odorless, poisonous gas produced by combustion processes, primarily mobile sources. When CO gets into the body, it combines with chemicals in the blood and prevents blood from providing oxygen to cells, tissues, and organs. Because the body requires oxygen for energy, high-level exposure to CO can cause serious health effects, including death (USEPA 2021b).

## **Nitrogen Oxides**

NO<sub>x</sub> is a general term pertaining to compounds including nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), and other oxides of nitrogen. NO<sub>x</sub> is produced from burning fuels, including gasoline, diesel, and coal. NO<sub>x</sub> reacts with volatile organic compounds (VOCs) to form ground-level O<sub>3</sub> (smog). NO<sub>x</sub> is linked to a number of adverse respiratory systems effects (USEPA 2021d).

## **Ozone**

Ground-level O<sub>3</sub> is not emitted directly into the air but is formed by chemical reactions of “precursor” pollutants (NO<sub>x</sub> and VOCs) in the presence of sunlight. Major emissions sources include NO<sub>x</sub> and VOC emissions from industrial facilities and electric utilities, motor vehicle exhaust, gasoline vapors, and chemical solvents. O<sub>3</sub> can trigger a variety of health problems, particularly for sensitive receptors, including children, older adults, and people of all ages who have lung diseases, such as asthma (USEPA 2021c).

## **Particulate Matter**

Particulate matter includes dust, metals, organic compounds, and other tiny particles of solid materials that are released into and move around in the air. Particulates are produced by many sources, including the burning of diesel fuels by trucks and buses, industrial processes, and fires. Particulate pollution can cause nose and throat irritation and heart and lung problems. Particulate matter is measured in microns, which are 1 millionth of a meter in length (or 1 thousandth of a millimeter). PM<sub>10</sub> is small (i.e., respirable) particulate matter measuring no more than 10 microns in diameter, while PM<sub>2.5</sub> is fine particulate matter measuring no more than 2.5 microns in diameter (CARB 2020b).

## **Sulfur Dioxide**

SO<sub>2</sub> is formed primarily by the combustion of sulfur-containing fossil fuels, especially at power plants and industrial facilities. SO<sub>2</sub> is linked to a number of adverse effects on the respiratory system (USEPA 2022).

## **Toxic Air Contaminants**

TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. The two primary emissions of concern regarding health effects for land development projects are CO and diesel particulate matter (DPM). The health effects of CO are described previously. DPM is a mixture of many exhaust particles and gases that is produced when an engine burns diesel fuel. Compounds found in diesel exhaust are carcinogenic. Some short-term (acute) effects of diesel exhaust exposure include eye, nose, throat, and lung irritation and headaches and dizziness. Long-term exposure is linked to increased risk of cardiovascular, cardiopulmonary, and respiratory disease and lung cancer (OSHA 2013).

## **Existing Ambient Air Quality**

Existing ambient air quality, historical trends, and projections are best documented by measurements made by the South Coast Air Quality Management District (SCAQMD). The City is in Source Receptor Area 3, Southwest Coastal Los Angeles County. The air quality monitoring station closest to the City is the Compton – 700 North Bullis Road Station. Additional data for PM<sub>10</sub> is provided by the Los Angeles – Westchester Parkway Station. Data for CO and SO<sub>2</sub> is not available for recent years at nearby stations. The most current 2 years of data monitored at these stations are included in Table 1, Ambient Air Quality Monitoring Summary.

**Table 1. Ambient Air Quality Monitoring Summary**

Pollutant/Standard	Number of Days Threshold Were Exceeded and Maximum Levels During Such Violations	
	2019	2020
<b>O<sub>3</sub></b>		
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	1	3
State 8-hour ≥ 0.07 ppm (days exceed threshold)	1	4
Federal 8-Hour > 0.07 ppm (days exceed threshold)	1	4
Max. 1-Hour Conc. (ppm)	0.100	0.152
Max. 8-Hour Conc. (ppm)	0.079	0.115
<b>NO<sub>2</sub></b>		
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0
Federal 1-Hour ≥ 0.100 ppm (days exceed threshold)	0	0
Max. 1-Hour Conc. (ppb)	0.070	0.0723
<b>PM<sub>10</sub></b>		
State 24-Hour > 50 µg/m <sup>3</sup> (days exceed threshold)	2	1
Federal 24-Hour > 150 µg/m <sup>3</sup> (days exceed threshold)	0	0
Max. 24-Hour Conc. (µg/m <sup>3</sup> )	62.1	55.5
<b>PM<sub>2.5</sub></b>		
Federal 24-Hour > 35 µg/m <sup>3</sup> (days exceed threshold)	1	19
Max. 24-Hour Conc. (µg/m <sup>3</sup> )	39.5	67.5

Source: CARB 2022c.

Notes: µg/m<sup>3</sup> = microgram per liter; NO<sub>2</sub> = nitrogen dioxide; O<sub>3</sub> = ozone; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter; ppb = parts per billion; ppm = parts per million

## Regulatory Setting

The Clean Air Act (CAA) of 1970 requires the U.S. Environmental Protection Agency (USEPA) to establish National Ambient Air Quality Standards (NAAQS) while retaining the option for states to adopt more stringent standards or to include other specific pollutants. NAAQS were developed for six criteria pollutants: O<sub>3</sub>, NO<sub>2</sub>, CO, SO<sub>2</sub>, particulate matter, and lead. The 1990 CAA Amendments require that each state have an Air Pollution Control Plan called the State Implementation Plan (SIP). The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the CAA. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The USEPA reviews the SIPs to determine whether the plans would conform to the 1990 CAA Amendments and achieve the air quality goals.

The USEPA has classified air basins (or portions thereof) as being in “attainment,” “non-attainment,” or “unclassified” for each criteria air pollutant based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a non-attainment or attainment designation. Table 2, South Coast Air Basin Attainment Status, lists the attainment status of the City in the South Coast Air Basin (SCAB) for the criteria pollutants. The USEPA classifies the SCAB in Los Angeles County as non-attainment for O<sub>3</sub> (1-hour and 8-hour), fine particulate matter (PM<sub>2.5</sub>), and lead with respect to federal air quality standards.

The State of California, under the California CAA, has established standards for criteria pollutants that are generally stricter than federal standards. As shown in Table 2, the SCAB in Los Angeles County is currently in non-attainment status for respirable particulate matter (PM<sub>10</sub>), PM<sub>2.5</sub>, and O<sub>3</sub> (1-hour and 8-hour).

**Table 2. South Coast Air Basin Attainment Status**

Pollutant	Averaging Time	California Standards	Federal Standards
O <sub>3</sub>	1-hour	Non-attainment	Non-attainment (extreme)
	8-hour		Non-attainment (extreme)
PM <sub>10</sub>	Annual arithmetic mean	Non-attainment	No federal standard
	24-hour		Attainment (maintenance)
PM <sub>2.5</sub>	Annual arithmetic mean	Non-attainment	Non-attainment (serious)
	24-hour	No state standard	
CO	8-hour	Attainment	Attainment (maintenance)
	1-hour		
NO <sub>2</sub>	Annual arithmetic mean	No state standard	Attainment (maintenance)
	1-hour	Attainment	Unclassified <sup>1</sup> /attainment
Lead	Calendar quarter	No state standard	Non-attainment
	Rolling 3-month average	No state standard	
SO <sub>2</sub>	Annual arithmetic mean	No state standard	Attainment
	24-hour	Attainment	Unclassifiable/attainment
	1-hour	Attainment	Designations pending (expect unclassified/attainment)
Sulfates	24-hour	Attainment	No federal standard
Hydrogen Sulfide	1-hour	Attainment	No federal standard

Source: CARB 2022b.

Notes: CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; O<sub>3</sub> = ozone; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter; SO<sub>2</sub> = sulfur dioxide

<sup>1</sup> Unclassified; indicates data is not sufficient for determining attainment or non-attainment.

## Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, older adults, people with acute illnesses, and people with chronic illnesses, especially those with cardiorespiratory diseases.

Residential areas are also considered sensitive to air pollution because residents tend to be home for extended periods of time, resulting in sustained exposure to any pollutants present. Other sensitive receptors include retirement facilities, hospitals, and schools. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. Industrial, commercial, and office areas are considered the least sensitive to air pollution. Exposure periods associated with these land use types are relatively short and intermittent because the majority of workers tend to stay indoors most of the time. The project site is in a primarily industrial area; however, some residences are located between industrial buildings. The closest residences are at the intersection of West 135th Street and Halldale Avenue, approximately 350 feet northeast of the project site, and near the intersection of West 135th Street and Normandie Drive, approximately 800 feet west of the project site.

## Significance Thresholds

The project is in the SCAB, which is composed of the Counties of Los Angeles, Orange, Riverside, and San Bernardino, covering an area of approximately 12,000 square miles along the southern coast of California. The SCAQMD consists of the four counties in the SCAB; therefore, the City is within the jurisdiction of the SCAQMD. The SCAQMD significance criteria are used in this analysis to determine the project's impact on air quality based on the SCAQMD California Environmental Quality Act (CEQA) Air Quality Guidelines.

Emissions from construction activities represent temporary impacts that are typically short in duration, depending on the size, phasing, and type of project. The SCAQMD identifies quantitative thresholds for criteria pollutants as listed in Table 3, South Coast Air Quality Management District Air Quality Mass Daily Thresholds. These threshold criteria are used into determine the significance of air quality impacts.

**Table 3. South Coast Air Quality Management District Air Quality Mass Daily Thresholds**

Pollutant	Construction Threshold (pounds/day)	Operational Threshold (pounds/day)
CO	550	550
NO <sub>x</sub>	100	55
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55
SO <sub>x</sub>	150	150
VOC	75	55

Source: SCAQMD 2019.

Notes: CO = carbon monoxide; NO<sub>x</sub> = nitrogen oxides; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter; SO<sub>x</sub> = sulfur oxides; VOC = volatile organic compound

The SCAQMD also identifies localized significance thresholds (LSTs), as shown in Table 4, Source Receptor Area Southwest Coastal Los Angeles County Localized Significance Thresholds, to determine if impacts to air quality are significant based on localized exceedances of the federal and or state ambient air quality standards. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor. LSTs are identified for NO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> generated on a project site. Localized construction and operational emissions thresholds are determined as a function of the disturbance area (acres) and receptor distance (meters) from the boundary of a site. The maximum disturbance area for the LSTs is 5 acres. The project site is approximately 8.46 acres; however; for the purposes of this analysis, the most conservative LSTs (1-acre disturbance) are used to screen for potential localized impacts from project construction. The nearest receptor distance is approximately 100 meters. The LSTs applicable to the project are listed in Table 4.

**Table 4. Source Receptor Area Southwest Coastal Los Angeles County Localized Significance Thresholds**

Air Pollutant	Allowable Emissions (pounds/day)	
	Construction	Operation
NO <sub>x</sub>	107	107
CO	1,156	1,156
PM <sub>10</sub>	28	7
PM <sub>2.5</sub>	9	3

Source: SCAQMD 2009.

Notes: CO = carbon monoxide; NO<sub>x</sub> = nitrogen oxides; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter

## Construction Impact Analysis

Project construction emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2020.4.0, based on construction information provided by the City and model default assumptions. Project construction is anticipated to last for 12 to 14 months, which is consistent with the CalEEMod default schedule assumptions for the Project. A total of 230,889 square feet of existing development on the project site would be demolished and hauled away. Cut and fill would be balanced on site, and no import or export is assumed. Modeling assumes implementation of the SCAQMD Rule 403 for fugitive dust control, which includes the following dust control measures during ground-disturbing activities: replacing ground cover in disturbed areas quickly, watering exposed surfaces at least two times daily, implementing equipment loading/unloading procedures to reduce fugitive dust, managing dust by watering two times daily, and reducing speed on unpaved roads to less than 15 miles per hour. Detailed assumptions and modeling datasheets are provided in Attachment 1, CalEEMod Results.

Maximum daily emissions levels associated with construction of the project are shown in Table 5, Estimated Construction Daily Maximum Air Pollutant Emissions (pounds/day). As shown in Table 5, the project would not exceed SCAQMD construction thresholds for any pollutant. Therefore, the project would not result in a significant impact related to criteria pollutant emissions during construction. Because emissions of criteria pollutants under the project would be below applicable thresholds, which are established to assist in maintaining or achieving regional attainment in the SCAB, construction would not result in a cumulatively considerable contribution to regional acute and long-term health impacts related to non-attainment of the ambient air quality standards.

**Table 5. Estimated Construction Daily Maximum Air Pollutant Emissions (pounds/day)**

Construction Phase	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition	2	28	22	<1	7	2
Site preparation	3	28	19	<1	10	6
Grading	2	18	15	<1	4	2
Building construction and coating	29	18	25	<1	4	1
Paving	2	10	15	<1	1	<1
<b>Maximum Daily Emissions</b>	<b>29</b>	<b>28</b>	<b>22</b>	<b>&lt;1</b>	<b>10</b>	<b>6</b>
<b>SCAQMD Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<i>Significant Impact?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

**Source:** CalEEMod, version 2020.4.0. See Attachment 1 for model output.

**Notes:** CO = carbon monoxide; NO<sub>x</sub> = oxides of nitrogen; PM<sub>10</sub> = particulate matter less than 10 microns; PM<sub>2.5</sub> = particulate matter less than 2.5 microns; SO<sub>x</sub> = oxides of sulfur; VOC = volatile organic compound

Emission quantities are rounded to the nearest whole number. Exact values are provided in Attachment 1.

Construction equipment exhaust combined with fugitive particulate matter emissions have the potential to expose sensitive receptors to criteria air pollutant emissions because these emissions would occur in the construction area. Consistent with SCAQMD methods, off-site vehicle and truck trips that would be spread out over commute and haul routes are not included in the LST analysis (SCAQMD 2008). As described above, project construction is compared to the most conservative LSTs for the project receptor area and receptor distance. As shown in Table 6, Estimated Construction Daily Maximum Air Pollutant Emissions (pounds/day) Relative to Localized Significance Thresholds, project construction emissions would not exceed these LST thresholds. On-site construction associated with project construction would not result in a significant impact to sensitive receptors.



**Table 6. Estimated Construction Daily Maximum Air Pollutant Emissions (pounds/day)  
Relative to Localized Significance Thresholds**

Construction Phase	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition	21	20	6	2
Site preparation	28	18	10	6
Grading	18	15	4	2
Building construction and coating	15	18	1	1
Paving	10	15	<1	<1
<b>Maximum Daily On-Site Emissions</b>	<b>28</b>	<b>20</b>	<b>10</b>	<b>6</b>
<b>1-Acre LST (allowable emissions)</b>	<b>107</b>	<b>1,156</b>	<b>28</b>	<b>9</b>
<i>Significant Impact?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

**Source:** CalEEMod, version 2020.4.0. See Attachment 1 for model output.

**Notes:** CO = carbon monoxide; LST = localized significance threshold; NO<sub>x</sub> = nitrogen oxides; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter; SO<sub>x</sub> = sulfur oxide; VOC = volatile organic compound

Emission quantities are rounded to the nearest hundredth. Exact values are provided in Attachment 1.

In addition to the potential for localized impacts described previously, construction has the potential to result in DPM emissions. DPM is a mixture of many exhaust particulates and gases that is produced when an engine burns diesel fuel. Compounds found in diesel exhaust are carcinogenic and, depending on the length of exposure, may cause health impacts ranging from irritation, headache, and dizziness to increased risk of cardiovascular, cardiopulmonary, and respiratory disease and lung cancer. The project would result in a short-term addition of truck trips occurring over a few months per project. However, the project site is currently a source of truck trips, reducing the net change in exposure during construction. Additionally, as shown in Table 5, total construction emissions would be below SCAQMD significance thresholds for particulate matter. Construction associated with implementation of the project would not result in a significant impact to sensitive receptors related to DPM.

Construction of the project could result in minor amounts of odor compounds associated with diesel heavy equipment exhaust. However, all diesel equipment would not be operating at once, and construction near individual receptors would be temporary. Additionally, SO<sub>x</sub> is the only criteria air pollutant with a strong, pungent odor (ATSDR 2015). As shown in Table 5, maximum construction emissions of SO<sub>x</sub> would be less than 1 pound per day, which is well below the SCAQMD long-term threshold of 150 pounds per day. Therefore, impacts associated with odors during construction would not result in nuisance odors that would result in a significant impact.

## Operation Impact Analysis

Area sources of air pollutant emissions associated with the Project include fuel combustion emissions from space and water heating, fuel combustion emissions from landscape maintenance equipment, VOC emissions from periodic repainting of interior and exterior surfaces, and natural gas use. Vehicles trips generated by the project would also contribute to regional emissions of criteria pollutants. However, the project site is currently developed with similar facilities. Operational emissions from existing land uses and the project are modeled with CalEEMod to estimate the net change in emissions as a result of project implementation. Vehicle trip data was obtained from the project's Transportation Impact Analysis (Gibson 2022). The project is anticipated to result in a net decrease in vehicle trips compared to existing conditions. Modeling conservatively assumes that the project would be developed as a manufacturing facility, which would result in a reduction of 178 daily trips compared to existing conditions. If the project operates as a warehousing use, it is anticipated to result in a reduction of 728 daily trips compared to existing conditions. If the Project is developed as a high-cube distribution center, it is anticipated to result in a reduction of 784 daily trips.

The total estimated and net changes in operational emissions from project implementation are provided in Table 7, Operational Daily Maximum Air Pollutant Emissions. As shown in Table 7, operational emissions from the



project would not exceed any of the SCAQMD significance thresholds and would result in a net decrease from existing conditions. Air quality impacts associated with operation of the project would be less than significant.

**Table 7. Operational Daily Maximum Air Pollutant Emissions**

Emissions Source	Maximum Daily Emissions (pounds/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Existing Conditions</b>						
Area sources	5	<1	<1	<1	<1	<1
Energy sources	<1	1	1	<1	<1	<1
Vehicular sources	4	4	43	<1	10	3
<b>Existing Total Operational Emissions</b>	<b>9</b>	<b>5</b>	<b>44</b>	<b>&lt;1</b>	<b>10</b>	<b>3</b>
<b>Proposed Project</b>						
Area sources	4	<1	<1	<1	<1	<1
Energy sources	<1	1	1	<1	<1	<1
Vehicular sources	3	4	36	<1	9	2
<b>Total Project Operational Emissions</b>	<b>8</b>	<b>5</b>	<b>37</b>	<b>&lt;1</b>	<b>9</b>	<b>2</b>
<b>Net Change from Project</b>	<b>(1)</b>	<b>0</b>	<b>(7)</b>	<b>0</b>	<b>(1)</b>	<b>(1)</b>
<b>Significance Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<i>Significant Impact?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

**Source:** CalEEMod, version 2020.4.0. See Attachment 1 for model output.

**Notes:** CO = carbon monoxide; NO<sub>x</sub> = nitrogen oxides; PM<sub>10</sub> = respirable particulate matter; PM<sub>2.5</sub> = fine particulate matter; SO<sub>2</sub> = sulfur dioxide; VOC = volatile organic compound

Emissions quantities are rounded to the nearest whole number. Exact values are provided in Attachment 1.

Regarding sensitive receptors, the project site is currently developed with industrial uses in an existing industrial area. Operation of the project would be similar to existing conditions. As shown in Table 7, the project would result in a net decrease in vehicle emissions compared to existing site operation. Therefore, the Project does not propose any new facilities that would require a health risk assessment for sensitive receptors. Future project tenants are currently unknown; however, equipment that would result in potential TAC emissions would require permitting from the SCAQMD. Additionally, because the project would result in a net decrease in vehicle trips, implementation of the project would not contribute to any CO hotspots. Therefore, impacts to sensitive receptors would be less than significant.

Typical sources of odor complaints include facilities such as sewage treatment plants, landfills, recycling facilities, petroleum refineries, and livestock operations (CARB 2005). Future Project tenants are currently unknown; however, the proposed building would not accommodate these types of uses. The Project would not construct a facility that would be anticipated to create substantial new objectionable odors. Additionally, SCAQMD Rule 402 prohibits nuisance odors. This impact would be less than significant.

## Summary

Implementation of the Project would not result in a significant air quality impact. No mitigation measures are necessary.

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**Attachment 1. CalEEMod Results**

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Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**Hitco Site - Existing Land Uses  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	148.79	1000sqft	3.42	148,788.00	0
Unrefrigerated Warehouse-No Rail	49.14	1000sqft	1.13	49,138.00	0
General Office Building	32.69	1000sqft	0.75	32,693.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Added parking to adjust lot acreage

Vehicle Trips - Adjusted to TIA trip rates

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.21	10.84
tblVehicleTrips	ST_TR	6.42	4.75
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	0.70	10.84

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

tblVehicleTrips	SU_TR	5.09	4.75
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	9.74	10.84
tblVehicleTrips	WD_TR	3.93	4.75
tblVehicleTrips	WD_TR	1.74	1.71

**2.0 Emissions Summary**

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Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	23.3225	0.0541	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,387.6950	5,387.6950	1.1972	0.2198	5,470.5976
2023	109.0939	17.0250	22.6080	0.0531	2.0722	0.7215	2.7936	0.5583	0.6789	1.2371	0.0000	5,285.9501	5,285.9501	0.7178	0.2076	5,364.9752
<b>Maximum</b>	<b>109.0939</b>	<b>33.1290</b>	<b>23.3225</b>	<b>0.0541</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>5,387.6950</b>	<b>5,387.6950</b>	<b>1.1972</b>	<b>0.2198</b>	<b>5,470.5976</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	23.3225	0.0541	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,387.6950	5,387.6950	1.1972	0.2198	5,470.5976
2023	109.0939	17.0250	22.6080	0.0531	2.0722	0.7215	2.7936	0.5583	0.6789	1.2371	0.0000	5,285.9501	5,285.9501	0.7178	0.2076	5,364.9752
<b>Maximum</b>	<b>109.0939</b>	<b>33.1290</b>	<b>23.3225</b>	<b>0.0541</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>5,387.6950</b>	<b>5,387.6950</b>	<b>1.1972</b>	<b>0.2198</b>	<b>5,470.5976</b>





Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2134	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545
Energy	0.1057	0.9605	0.8068	5.7600e-003		0.0730	0.0730		0.0730	0.0730		1,152.5729	1,152.5729	0.0221	0.0211	1,159.4220
Mobile	3.9004	4.2494	42.7919	0.0955	9.7499	0.0675	9.8174	2.5970	0.0627	2.6596		9,836.7737	9,836.7737	0.6100	0.3809	9,965.5225
<b>Total</b>	<b>9.2195</b>	<b>5.2101</b>	<b>43.6226</b>	<b>0.1013</b>	<b>9.7499</b>	<b>0.1406</b>	<b>9.8905</b>	<b>2.5970</b>	<b>0.1358</b>	<b>2.7327</b>		<b>10,989.3977</b>	<b>10,989.3977</b>	<b>0.6322</b>	<b>0.4020</b>	<b>11,124.9990</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	5.2134	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545
Energy	0.1057	0.9605	0.8068	5.7600e-003		0.0730	0.0730		0.0730	0.0730		1,152.5729	1,152.5729	0.0221	0.0211	1,159.4220
Mobile	3.9004	4.2494	42.7919	0.0955	9.7499	0.0675	9.8174	2.5970	0.0627	2.6596		9,836.7737	9,836.7737	0.6100	0.3809	9,965.5225
<b>Total</b>	<b>9.2195</b>	<b>5.2101</b>	<b>43.6226</b>	<b>0.1013</b>	<b>9.7499</b>	<b>0.1406</b>	<b>9.8905</b>	<b>2.5970</b>	<b>0.1358</b>	<b>2.7327</b>		<b>10,989.3977</b>	<b>10,989.3977</b>	<b>0.6322</b>	<b>0.4020</b>	<b>11,124.9990</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/26/2022	6/22/2022	5	20	
2	Site Preparation	Site Preparation	6/23/2022	7/6/2022	5	10	
3	Grading	Grading	7/7/2022	8/3/2022	5	20	
4	Building Construction	Building Construction	8/4/2022	6/21/2023	5	230	
5	Paving	Paving	6/22/2023	7/19/2023	5	20	
6	Architectural Coating	Architectural Coating	7/20/2023	8/16/2023	5	20	

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

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 3.16**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 345,929; Non-Residential Outdoor: 115,310; Striped Parking Area: 8,259 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	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	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	151.00	60.00	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	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>		<b>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>		<b>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>



Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.046 4</b>	<b>2,872.046 4</b>	<b>0.9289</b>		<b>2,895.268 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>	<b>0.0000</b>	<b>2,872.046 4</b>	<b>2,872.046 4</b>	<b>0.9289</b>		<b>2,895.268 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1181	2.9391	1.0077	0.0118	0.3843	0.0280	0.4123	0.1107	0.0268	0.1374		1,262.7696	1,262.7696	0.0422	0.1820	1,318.0508
Worker	0.5226	0.3816	5.9514	0.0154	1.6878	0.0108	1.6986	0.4476	9.9600e-003	0.4576		1,570.5919	1,570.5919	0.0425	0.0378	1,582.9146
<b>Total</b>	<b>0.6407</b>	<b>3.3206</b>	<b>6.9591</b>	<b>0.0272</b>	<b>2.0721</b>	<b>0.0388</b>	<b>2.1110</b>	<b>0.5583</b>	<b>0.0367</b>	<b>0.5950</b>		<b>2,833.3614</b>	<b>2,833.3614</b>	<b>0.0847</b>	<b>0.2198</b>	<b>2,900.9654</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1181	2.9391	1.0077	0.0118	0.3843	0.0280	0.4123	0.1107	0.0268	0.1374		1,262.7696	1,262.7696	0.0422	0.1820	1,318.0508
Worker	0.5226	0.3816	5.9514	0.0154	1.6878	0.0108	1.6986	0.4476	9.9600e-003	0.4576		1,570.5919	1,570.5919	0.0425	0.0378	1,582.9146
<b>Total</b>	<b>0.6407</b>	<b>3.3206</b>	<b>6.9591</b>	<b>0.0272</b>	<b>2.0721</b>	<b>0.0388</b>	<b>2.1110</b>	<b>0.5583</b>	<b>0.0367</b>	<b>0.5950</b>		<b>2,833.3614</b>	<b>2,833.3614</b>	<b>0.0847</b>	<b>0.2198</b>	<b>2,900.9654</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0691	2.3030	0.8922	0.0112	0.3843	0.0116	0.3959	0.1107	0.0111	0.1217		1,201.6948	1,201.6948	0.0403	0.1728	1,254.1867
Worker	0.4835	0.3371	5.4718	0.0149	1.6878	0.0102	1.6980	0.4476	9.3800e-003	0.4570		1,529.0453	1,529.0453	0.0381	0.0349	1,540.3825
<b>Total</b>	<b>0.5526</b>	<b>2.6401</b>	<b>6.3640</b>	<b>0.0261</b>	<b>2.0722</b>	<b>0.0218</b>	<b>2.0939</b>	<b>0.5583</b>	<b>0.0205</b>	<b>0.5787</b>		<b>2,730.7401</b>	<b>2,730.7401</b>	<b>0.0784</b>	<b>0.2076</b>	<b>2,794.5691</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0691	2.3030	0.8922	0.0112	0.3843	0.0116	0.3959	0.1107	0.0111	0.1217		1,201.6948	1,201.6948	0.0403	0.1728	1,254.1867
Worker	0.4835	0.3371	5.4718	0.0149	1.6878	0.0102	1.6980	0.4476	9.3800e-003	0.4570		1,529.0453	1,529.0453	0.0381	0.0349	1,540.3825
<b>Total</b>	<b>0.5526</b>	<b>2.6401</b>	<b>6.3640</b>	<b>0.0261</b>	<b>2.0722</b>	<b>0.0218</b>	<b>2.0939</b>	<b>0.5583</b>	<b>0.0205</b>	<b>0.5787</b>		<b>2,730.7401</b>	<b>2,730.7401</b>	<b>0.0784</b>	<b>0.2076</b>	<b>2,794.5691</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.4140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4467</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.4140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4467</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>



Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	108.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>108.9978</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0961	0.0670	1.0871	2.9700e-003	0.3353	2.0200e-003	0.3374	0.0889	1.8600e-003	0.0908		303.7838	303.7838	7.5600e-003	6.9200e-003	306.0363
<b>Total</b>	<b>0.0961</b>	<b>0.0670</b>	<b>1.0871</b>	<b>2.9700e-003</b>	<b>0.3353</b>	<b>2.0200e-003</b>	<b>0.3374</b>	<b>0.0889</b>	<b>1.8600e-003</b>	<b>0.0908</b>		<b>303.7838</b>	<b>303.7838</b>	<b>7.5600e-003</b>	<b>6.9200e-003</b>	<b>306.0363</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	108.8062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>108.9978</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0961	0.0670	1.0871	2.9700e-003	0.3353	2.0200e-003	0.3374	0.0889	1.8600e-003	0.0908		303.7838	303.7838	7.5600e-003	6.9200e-003	306.0363
<b>Total</b>	<b>0.0961</b>	<b>0.0670</b>	<b>1.0871</b>	<b>2.9700e-003</b>	<b>0.3353</b>	<b>2.0200e-003</b>	<b>0.3374</b>	<b>0.0889</b>	<b>1.8600e-003</b>	<b>0.0908</b>		<b>303.7838</b>	<b>303.7838</b>	<b>7.5600e-003</b>	<b>6.9200e-003</b>	<b>306.0363</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9004	4.2494	42.7919	0.0955	9.7499	0.0675	9.8174	2.5970	0.0627	2.6596		9,836.773 7	9,836.773 7	0.6100	0.3809	9,965.522 5
Unmitigated	3.9004	4.2494	42.7919	0.0955	9.7499	0.0675	9.8174	2.5970	0.0627	2.6596		9,836.773 7	9,836.773 7	0.6100	0.3809	9,965.522 5

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	354.39	354.39	354.39	1,141,660	1,141,660
Manufacturing	706.74	706.74	706.74	3,129,654	3,129,654
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	84.03	84.03	84.03	360,112	360,112
<b>Total</b>	<b>1,145.16</b>	<b>1,145.16</b>	<b>1,145.16</b>	<b>4,631,426</b>	<b>4,631,426</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Manufacturing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Unrefrigerated Warehouse-No Rail	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1057	0.9605	0.8068	5.7600e-003		0.0730	0.0730		0.0730	0.0730		1,152.5729	1,152.5729	0.0221	0.0211	1,159.4220
NaturalGas Unmitigated	0.1057	0.9605	0.8068	5.7600e-003		0.0730	0.0730		0.0730	0.0730		1,152.5729	1,152.5729	0.0221	0.0211	1,159.4220

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	810.607	8.7400e-003	0.0795	0.0668	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003		95.3656	95.3656	1.8300e-003	1.7500e-003	95.9323
Manufacturing	8462.57	0.0913	0.8297	0.6969	4.9800e-003		0.0631	0.0631		0.0631	0.0631		995.5967	995.5967	0.0191	0.0183	1,001.5131
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	523.69	5.6500e-003	0.0513	0.0431	3.1000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003		61.6106	61.6106	1.1800e-003	1.1300e-003	61.9767
<b>Total</b>		<b>0.1057</b>	<b>0.9605</b>	<b>0.8068</b>	<b>5.7700e-003</b>		<b>0.0730</b>	<b>0.0730</b>		<b>0.0730</b>	<b>0.0730</b>		<b>1,152.5729</b>	<b>1,152.5729</b>	<b>0.0221</b>	<b>0.0211</b>	<b>1,159.4220</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.810607	8.7400e-003	0.0795	0.0668	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003		95.3656	95.3656	1.8300e-003	1.7500e-003	95.9323
Manufacturing	8.46257	0.0913	0.8297	0.6969	4.9800e-003		0.0631	0.0631		0.0631	0.0631		995.5967	995.5967	0.0191	0.0183	1,001.5131
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.52369	5.6500e-003	0.0513	0.0431	3.1000e-004		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003		61.6106	61.6106	1.1800e-003	1.1300e-003	61.9767
<b>Total</b>		<b>0.1057</b>	<b>0.9605</b>	<b>0.8068</b>	<b>5.7700e-003</b>		<b>0.0730</b>	<b>0.0730</b>		<b>0.0730</b>	<b>0.0730</b>		<b>1,152.5729</b>	<b>1,152.5729</b>	<b>0.0221</b>	<b>0.0211</b>	<b>1,159.4220</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2134	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545
Unmitigated	5.2134	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545

**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	0.5962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2100e-003	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545
<b>Total</b>	<b>5.2134</b>	<b>2.2000e-004</b>	<b>0.0239</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0512</b>	<b>0.0512</b>	<b>1.3000e-004</b>		<b>0.0545</b>

Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2100e-003	2.2000e-004	0.0239	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.3000e-004		0.0545
<b>Total</b>	<b>5.2134</b>	<b>2.2000e-004</b>	<b>0.0239</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0512</b>	<b>0.0512</b>	<b>1.3000e-004</b>		<b>0.0545</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Hitco Site - Existing Land Uses - Los Angeles-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Hitco Proposed - Los Angeles-South Coast County, Summer

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

**Hitco Proposed  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.00	1000sqft	0.23	10,000.00	0
Manufacturing	180.86	1000sqft	4.15	180,860.00	0
Parking Lot	4.08	Acre	4.08	177,724.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics -
- Land Use - Added parking to adjust lot acreage
- Construction Phase - adjusted coating to simultaneous with last third of building construction
- Demolition -
- Grading - adjusted grading area to site acreage
- Vehicle Trips - Adjusted consistent with TIA
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Hitco Proposed - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	NumDays	20.00	69.00
tblGrading	AcresOfGrading	20.00	8.46
tblGrading	AcresOfGrading	15.00	8.46
tblVehicleTrips	ST_TR	2.21	10.84
tblVehicleTrips	ST_TR	6.42	4.75
tblVehicleTrips	SU_TR	0.70	10.84
tblVehicleTrips	SU_TR	5.09	4.75
tblVehicleTrips	WD_TR	9.74	10.84
tblVehicleTrips	WD_TR	3.93	4.75

**2.0 Emissions Summary**

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Hitco Proposed - Los Angeles-South Coast County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7171	28.3686	22.7167	0.0710	19.1646	1.2672	20.4319	10.0809	1.1659	11.2468	0.0000	7,272.8415	7,272.8415	1.2391	0.5392	7,464.5132
2024	26.6312	16.0585	22.2344	0.0528	2.1057	0.6349	2.7406	0.5672	0.5972	1.1644	0.0000	5,266.6246	5,266.6246	0.7174	0.2034	5,344.2379
<b>Maximum</b>	<b>26.6312</b>	<b>28.3686</b>	<b>22.7167</b>	<b>0.0710</b>	<b>19.1646</b>	<b>1.2672</b>	<b>20.4319</b>	<b>10.0809</b>	<b>1.1659</b>	<b>11.2468</b>	<b>0.0000</b>	<b>7,272.8415</b>	<b>7,272.8415</b>	<b>1.2391</b>	<b>0.5392</b>	<b>7,464.5132</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7171	28.3686	22.7167	0.0710	8.7348	1.2672	10.0020	4.5658	1.1659	5.7316	0.0000	7,272.8415	7,272.8415	1.2391	0.5392	7,464.5132
2024	26.6312	16.0585	22.2344	0.0528	2.1057	0.6349	2.7406	0.5672	0.5972	1.1644	0.0000	5,266.6246	5,266.6246	0.7174	0.2034	5,344.2379
<b>Maximum</b>	<b>26.6312</b>	<b>28.3686</b>	<b>22.7167</b>	<b>0.0710</b>	<b>8.7348</b>	<b>1.2672</b>	<b>10.0020</b>	<b>4.5658</b>	<b>1.1659</b>	<b>5.7316</b>	<b>0.0000</b>	<b>7,272.8415</b>	<b>7,272.8415</b>	<b>1.2391</b>	<b>0.5392</b>	<b>7,464.5132</b>



Hitco Proposed - Los Angeles-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3421	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455
Energy	0.1136	1.0328	0.8676	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.3726	1,239.3726	0.0238	0.0227	1,246.7376
Mobile	3.3220	3.5779	36.4729	0.0833	8.7445	0.0585	8.8031	2.3293	0.0544	2.3836		8,640.1337	8,640.1337	0.5272	0.3271	8,750.7889
<b>Total</b>	<b>7.7777</b>	<b>4.6109</b>	<b>37.3603</b>	<b>0.0895</b>	<b>8.7445</b>	<b>0.1371</b>	<b>8.8816</b>	<b>2.3293</b>	<b>0.1329</b>	<b>2.4622</b>		<b>9,879.5490</b>	<b>9,879.5490</b>	<b>0.5511</b>	<b>0.3498</b>	<b>9,997.5719</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	4.3421	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455
Energy	0.1136	1.0328	0.8676	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.3726	1,239.3726	0.0238	0.0227	1,246.7376
Mobile	3.3220	3.5779	36.4729	0.0833	8.7445	0.0585	8.8031	2.3293	0.0544	2.3836		8,640.1337	8,640.1337	0.5272	0.3271	8,750.7889
<b>Total</b>	<b>7.7777</b>	<b>4.6109</b>	<b>37.3603</b>	<b>0.0895</b>	<b>8.7445</b>	<b>0.1371</b>	<b>8.8816</b>	<b>2.3293</b>	<b>0.1329</b>	<b>2.4622</b>		<b>9,879.5490</b>	<b>9,879.5490</b>	<b>0.5511</b>	<b>0.3498</b>	<b>9,997.5719</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/10/2023	5	10	
3	Grading	Grading	2/11/2023	3/10/2023	5	20	
4	Building Construction	Building Construction	3/11/2023	1/26/2024	5	230	
5	Paving	Paving	1/27/2024	2/23/2024	5	20	
6	Architectural Coating	Architectural Coating	2/24/2024	5/30/2024	5	69	

**Acres of Grading (Site Preparation Phase): 8.46**

**Acres of Grading (Grading Phase): 8.46**

**Acres of Paving: 4.08**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 286,290; Non-Residential Outdoor: 95,430; Striped Parking Area: 10,663 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Hitco Proposed - Los Angeles-South Coast County, Summer

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

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	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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,050.00	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	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	154.00	60.00	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	31.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads



Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3643	0.0000	11.3643	1.7207	0.0000	1.7207			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
<b>Total</b>	<b>2.2691</b>	<b>21.4844</b>	<b>19.6434</b>	<b>0.0388</b>	<b>11.3643</b>	<b>0.9975</b>	<b>12.3619</b>	<b>1.7207</b>	<b>0.9280</b>	<b>2.6487</b>		<b>3,746.9840</b>	<b>3,746.9840</b>	<b>1.0494</b>		<b>3,773.2183</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1139	6.8507	1.8285	0.0307	0.9190	0.0432	0.9622	0.2520	0.0413	0.2933		3,373.9656	3,373.9656	0.1860	0.5358	3,538.2768
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.1619</b>	<b>6.8842</b>	<b>2.3721</b>	<b>0.0322</b>	<b>1.0866</b>	<b>0.0442</b>	<b>1.1309</b>	<b>0.2964</b>	<b>0.0423</b>	<b>0.3387</b>		<b>3,525.8575</b>	<b>3,525.8575</b>	<b>0.1897</b>	<b>0.5392</b>	<b>3,691.2950</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1139	0.0000	5.1139	0.7743	0.0000	0.7743			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
<b>Total</b>	<b>2.2691</b>	<b>21.4844</b>	<b>19.6434</b>	<b>0.0388</b>	<b>5.1139</b>	<b>0.9975</b>	<b>6.1115</b>	<b>0.7743</b>	<b>0.9280</b>	<b>1.7023</b>	<b>0.0000</b>	<b>3,746.9840</b>	<b>3,746.9840</b>	<b>1.0494</b>		<b>3,773.2183</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1139	6.8507	1.8285	0.0307	0.9190	0.0432	0.9622	0.2520	0.0413	0.2933		3,373.9656	3,373.9656	0.1860	0.5358	3,538.2768
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.1619</b>	<b>6.8842</b>	<b>2.3721</b>	<b>0.0322</b>	<b>1.0866</b>	<b>0.0442</b>	<b>1.1309</b>	<b>0.2964</b>	<b>0.0423</b>	<b>0.3387</b>		<b>3,525.8575</b>	<b>3,525.8575</b>	<b>0.1897</b>	<b>0.5392</b>	<b>3,691.2950</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9634	0.0000	18.9634	10.0276	0.0000	10.0276			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.9634</b>	<b>1.2660</b>	<b>20.2295</b>	<b>10.0276</b>	<b>1.1647</b>	<b>11.1923</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
<b>Total</b>	<b>0.0576</b>	<b>0.0402</b>	<b>0.6523</b>	<b>1.7800e-003</b>	<b>0.2012</b>	<b>1.2100e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>182.2703</b>	<b>182.2703</b>	<b>4.5400e-003</b>	<b>4.1500e-003</b>	<b>183.6218</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5336	0.0000	8.5336	4.5124	0.0000	4.5124			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.5336</b>	<b>1.2660</b>	<b>9.7996</b>	<b>4.5124</b>	<b>1.1647</b>	<b>5.6771</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
<b>Total</b>	<b>0.0576</b>	<b>0.0402</b>	<b>0.6523</b>	<b>1.7800e-003</b>	<b>0.2012</b>	<b>1.2100e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>182.2703</b>	<b>182.2703</b>	<b>4.5400e-003</b>	<b>4.1500e-003</b>	<b>183.6218</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4707	0.0000	6.4707	3.3587	0.0000	3.3587			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>6.4707</b>	<b>0.7749</b>	<b>7.2456</b>	<b>3.3587</b>	<b>0.7129</b>	<b>4.0716</b>		<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9118	0.0000	2.9118	1.5114	0.0000	1.5114			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>2.9118</b>	<b>0.7749</b>	<b>3.6867</b>	<b>1.5114</b>	<b>0.7129</b>	<b>2.2243</b>	<b>0.0000</b>	<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0691	2.3030	0.8922	0.0112	0.3843	0.0116	0.3959	0.1107	0.0111	0.1217		1,201.6948	1,201.6948	0.0403	0.1728	1,254.1867
Worker	0.4931	0.3438	5.5805	0.0152	1.7214	0.0104	1.7317	0.4565	9.5600e-003	0.4661		1,559.4237	1,559.4237	0.0388	0.0355	1,570.9861
<b>Total</b>	<b>0.5622</b>	<b>2.6468</b>	<b>6.4727</b>	<b>0.0264</b>	<b>2.1057</b>	<b>0.0220</b>	<b>2.1276</b>	<b>0.5672</b>	<b>0.0206</b>	<b>0.5878</b>		<b>2,761.1185</b>	<b>2,761.1185</b>	<b>0.0791</b>	<b>0.2083</b>	<b>2,825.1728</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0691	2.3030	0.8922	0.0112	0.3843	0.0116	0.3959	0.1107	0.0111	0.1217		1,201.6948	1,201.6948	0.0403	0.1728	1,254.1867
Worker	0.4931	0.3438	5.5805	0.0152	1.7214	0.0104	1.7317	0.4565	9.5600e-003	0.4661		1,559.4237	1,559.4237	0.0388	0.0355	1,570.9861
<b>Total</b>	<b>0.5622</b>	<b>2.6468</b>	<b>6.4727</b>	<b>0.0264</b>	<b>2.1057</b>	<b>0.0220</b>	<b>2.1276</b>	<b>0.5672</b>	<b>0.0206</b>	<b>0.5878</b>		<b>2,761.1185</b>	<b>2,761.1185</b>	<b>0.0791</b>	<b>0.2083</b>	<b>2,825.1728</b>



Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0670	2.3077	0.8732	0.0110	0.3843	0.0117	0.3960	0.1107	0.0112	0.1218		1,183.6476	1,183.6476	0.0404	0.1704	1,235.4240
Worker	0.4596	0.3070	5.1944	0.0148	1.7214	9.9600e-003	1.7313	0.4565	9.1700e-003	0.4657		1,527.2780	1,527.2780	0.0351	0.0331	1,538.0062
<b>Total</b>	<b>0.5266</b>	<b>2.6147</b>	<b>6.0676</b>	<b>0.0258</b>	<b>2.1057</b>	<b>0.0216</b>	<b>2.1273</b>	<b>0.5672</b>	<b>0.0203</b>	<b>0.5875</b>		<b>2,710.9257</b>	<b>2,710.9257</b>	<b>0.0756</b>	<b>0.2034</b>	<b>2,773.4303</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0670	2.3077	0.8732	0.0110	0.3843	0.0117	0.3960	0.1107	0.0112	0.1218		1,183.6476	1,183.6476	0.0404	0.1704	1,235.4240
Worker	0.4596	0.3070	5.1944	0.0148	1.7214	9.9600e-003	1.7313	0.4565	9.1700e-003	0.4657		1,527.2780	1,527.2780	0.0351	0.0331	1,538.0062
<b>Total</b>	<b>0.5266</b>	<b>2.6147</b>	<b>6.0676</b>	<b>0.0258</b>	<b>2.1057</b>	<b>0.0216</b>	<b>2.1273</b>	<b>0.5672</b>	<b>0.0203</b>	<b>0.5875</b>		<b>2,710.9257</b>	<b>2,710.9257</b>	<b>0.0756</b>	<b>0.2034</b>	<b>2,773.4303</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.5345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5226</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0299	0.5060	1.4400e-003	0.1677	9.7000e-004	0.1686	0.0445	8.9000e-004	0.0454		148.7609	148.7609	3.4200e-003	3.2200e-003	149.8058
<b>Total</b>	<b>0.0448</b>	<b>0.0299</b>	<b>0.5060</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.7000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.9000e-004</b>	<b>0.0454</b>		<b>148.7609</b>	<b>148.7609</b>	<b>3.4200e-003</b>	<b>3.2200e-003</b>	<b>149.8058</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.5345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5226</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0448	0.0299	0.5060	1.4400e-003	0.1677	9.7000e-004	0.1686	0.0445	8.9000e-004	0.0454		148.7609	148.7609	3.4200e-003	3.2200e-003	149.8058
<b>Total</b>	<b>0.0448</b>	<b>0.0299</b>	<b>0.5060</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.7000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.9000e-004</b>	<b>0.0454</b>		<b>148.7609</b>	<b>148.7609</b>	<b>3.4200e-003</b>	<b>3.2200e-003</b>	<b>149.8058</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.3579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>26.5387</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0925	0.0618	1.0456	2.9800e-003	0.3465	2.0100e-003	0.3485	0.0919	1.8500e-003	0.0937		307.4391	307.4391	7.0700e-003	6.6500e-003	309.5987
<b>Total</b>	<b>0.0925</b>	<b>0.0618</b>	<b>1.0456</b>	<b>2.9800e-003</b>	<b>0.3465</b>	<b>2.0100e-003</b>	<b>0.3485</b>	<b>0.0919</b>	<b>1.8500e-003</b>	<b>0.0937</b>		<b>307.4391</b>	<b>307.4391</b>	<b>7.0700e-003</b>	<b>6.6500e-003</b>	<b>309.5987</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**3.7 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.3579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>26.5387</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0925	0.0618	1.0456	2.9800e-003	0.3465	2.0100e-003	0.3485	0.0919	1.8500e-003	0.0937		307.4391	307.4391	7.0700e-003	6.6500e-003	309.5987
<b>Total</b>	<b>0.0925</b>	<b>0.0618</b>	<b>1.0456</b>	<b>2.9800e-003</b>	<b>0.3465</b>	<b>2.0100e-003</b>	<b>0.3485</b>	<b>0.0919</b>	<b>1.8500e-003</b>	<b>0.0937</b>		<b>307.4391</b>	<b>307.4391</b>	<b>7.0700e-003</b>	<b>6.6500e-003</b>	<b>309.5987</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3220	3.5779	36.4729	0.0833	8.7445	0.0585	8.8031	2.3293	0.0544	2.3836		8,640.1337	8,640.1337	0.5272	0.3271	8,750.7889
Unmitigated	3.3220	3.5779	36.4729	0.0833	8.7445	0.0585	8.8031	2.3293	0.0544	2.3836		8,640.1337	8,640.1337	0.5272	0.3271	8,750.7889

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.40	108.40	108.40	349,206	349,206
Manufacturing	859.09	859.09	859.09	3,804,267	3,804,267
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>967.49</b>	<b>967.49</b>	<b>967.49</b>	<b>4,153,473</b>	<b>4,153,473</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Manufacturing	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**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	1.0328	0.8676	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.3726	1,239.3726	0.0238	0.0227	1,246.7376
NaturalGas Unmitigated	0.1136	1.0328	0.8676	6.2000e-003		0.0785	0.0785		0.0785	0.0785		1,239.3726	1,239.3726	0.0238	0.0227	1,246.7376



Hitco Proposed - Los Angeles-South Coast County, Summer

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

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	247.945	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		29.1700	29.1700	5.6000e-004	5.3000e-004	29.3434
Manufacturing	10286.7	0.1109	1.0085	0.8471	6.0500e-003		0.0767	0.0767		0.0767	0.0767		1,210.2026	1,210.2026	0.0232	0.0222	1,217.3942
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0328</b>	<b>0.8676</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.3726</b>	<b>1,239.3726</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.7376</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.247945	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		29.1700	29.1700	5.6000e-004	5.3000e-004	29.3434
Manufacturing	10.2867	0.1109	1.0085	0.8471	6.0500e-003		0.0767	0.0767		0.0767	0.0767		1,210.2026	1,210.2026	0.0232	0.0222	1,217.3942
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1136</b>	<b>1.0328</b>	<b>0.8676</b>	<b>6.2000e-003</b>		<b>0.0785</b>	<b>0.0785</b>		<b>0.0785</b>	<b>0.0785</b>		<b>1,239.3726</b>	<b>1,239.3726</b>	<b>0.0238</b>	<b>0.0227</b>	<b>1,246.7376</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hitco Proposed - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3421	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455
Unmitigated	4.3421	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455

**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	0.4983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8300e-003	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455
<b>Total</b>	<b>4.3421</b>	<b>1.8000e-004</b>	<b>0.0199</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>0.0427</b>	<b>0.0427</b>	<b>1.1000e-004</b>		<b>0.0455</b>

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8300e-003	1.8000e-004	0.0199	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0427	0.0427	1.1000e-004		0.0455
<b>Total</b>	<b>4.3421</b>	<b>1.8000e-004</b>	<b>0.0199</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>0.0427</b>	<b>0.0427</b>	<b>1.1000e-004</b>		<b>0.0455</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Hitco Proposed - Los Angeles-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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