



KPC EHS Consultants

Technical Memorandum

To: EPC Consulting, Mr. Ernest Perea.

From: Kevin P. Carr, MS., KPC EHS Consultants

Date: December 16, 2022 (Revised February 16, 2023)

Re: Sangha Trucking Development Project, Hesperia - Air Quality/GHG Assessment

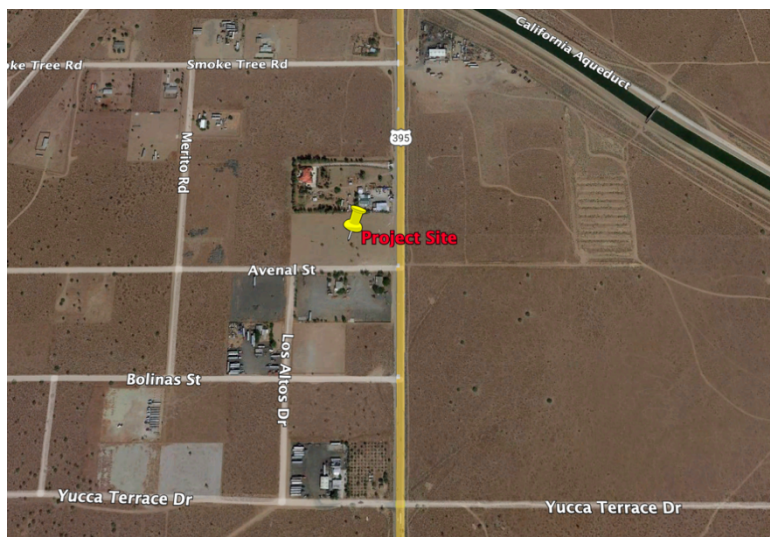
1.0 Purpose

The purpose of this memorandum is to document the results of the air quality (AQ) and greenhouse gas (GHG) emissions assessment as it relates to the potential environmental impacts associated with the construction and operation of the proposed office, truck freight, and storage facility project on approximately 4.37 acres.

2.0 Project Location & Description

- 2.1 Project Location:** The proposed project site is located in the City of Hesperia, San Bernardino, California on the north side of Avenal Street, on the northwest corner of State 395 and Avenal Street, also referred to as APN: 3064-371-12. (Exhibit 2-1)
- 2.2 Description:** The Applicant is proposing to develop a 13,500 square foot (sf) industrial structure consisting of 12,000 sf storage area and 1,500 sf office space, automobile parking spaces, and truck/trailer stalls on an approximately 4.37 - acre vacant parcel.

Exhibit 2-1 Project Location



3.0 Air Quality & Greenhouse Gas (GHG) Assessment

3.1 Determination of Significance:

The criteria used to determine the significance related to potential Project related air quality and greenhouse gas emission impacts is based on the California Environmental Quality Act (CEQA) Environmental Checklist, Appendix G Thresholds:

3.1.1 Air Quality / GHG Impacts:

Would the Project: Conflict with or obstruct implementation of the applicable air quality plan?

Would the Project: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Would the Project: Expose sensitive receptors to substantial pollutant concentrations?

Would the Project: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Would the Project: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Would the Project: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

3.1.2 Air Quality / GHG Thresholds:

The Mojave Desert Air Quality Management District (MDAQMD) has developed regional significance thresholds for regulated pollutants as well as GHG emissions. The MDAQMD's CEQA Guidelines provide significance thresholds as indicated in Table 3.1 below.

Table 3.1 – Emissions Significance Thresholds

Criteria Pollutant / Emission	Annual Threshold (Tons)	Daily Threshold (pounds)
Carbon Monoxide (CO)	100	548
Oxides of Nitrogen (NOx)	25	137
Reactive Organic Gases (ROG)	25	137
Sulfur Oxides (Sox)	25	137
Particulate Matter 10 microns (PM10)	15	82
Particulate Matter 2.5 microns (PM2.5)	12	65
Carbon Dioxide Equivalent (CO2e) for GHG.	100,000	548,000

3.2 Construction Emissions:

Construction emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) 2020.4.0, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the Mojave Desert Air Quality Management District (MDAQMD). Construction emissions are summarized in Table 3.2.

Construction emissions were based on CalEEMod Land Uses for 12,000 square foot “Unrefrigerated Warehouse – No Rail”, and 1,500 square foot “General Office”, 27 space auto parking, and 1 acre truck/trailers parking. Construction was estimated using default values as a 279-day construction schedule, with default values for off-road construction equipment. Peak emissions represent the highest value from the summer or winter modeling as a worse-case scenario. MDAQMD significance thresholds were used for determining the project’s impacts.

Table 3.2 - Summary of Peak Construction Emissions (Without Mitigation)*

Year	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2022	3.24	33.12	20.26	0.07	21.42	11.63
2023	4.11	14.81	17.23	0.03	1.01	0.75
Maximum Daily Emissions	4.11	33.12	20.26	0.07	21.42	11.63
MDAQMD Regional Threshold	137	137	548	137	82	65
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

* MDAQMD Fugitive Dust Rules Applied.

3.3 Operational Emissions:

Operational emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the Mojave Desert Air Quality Management District (MDAQMD). Operations emissions include stationary (facility emissions), mobile (transportation emissions from employees and trucks), and area (on-going architectural coatings, consumer product use, landscaping maintenance emissions). Default values were used. MDAQMD significance thresholds were used for determining the project’s impacts. Operation emissions are summarized in Table 3.3.

3.3.1 On-Site Equipment Emissions

Industrial warehouse projects commonly require the use of forklifts and pallet jacks for the movement of material into and out of cargo trailers. The emission estimates for the Project includes 1 forklift and 1 pallet jack operating at 8 hours a day for 365 days of the year interior to the building. For purposes of the AQA forklifts and pallet jacks are assumed to be electric consistent with industry standards.

Table 3.3 - Summary of Peak Operational Emissions

Operational Activities – Summer	Emissions (pounds per day)					
	VOC	NOX	CO	SOX	PM10	PM2.5
Area Source	0.33	<0.01	<0.01	0.00	<0.01	<0.01
Energy Source	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mobile	0.12	0.14	0.99	<0.01	0.20	0.06
Total Maximum Daily Emissions	0.45	0.15	1.00	<0.01	0.20	0.06
MDAQMD Regional Threshold	137	137	548	137	82	65
Threshold Exceeded?	NO	NO	NO	NO	NO	NO
Operational Activities – Winter	Emissions (pounds per day)					
	VOC	NOX	CO	SOX	PM10	PM2.5
Area Source	0.33	<0.01	<0.01	0.00	<0.01	<0.01
Energy Source	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mobile	0.10	0.15	0.87	<0.01	0.20	0.06
Total Maximum Daily Emissions	0.43	0.16	0.89	<0.01	0.20	0.06
MDAQMD Regional Threshold	137	137	548	137	82	65
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

3.4 Greenhouse Gas Emissions (GHG):

GHG emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the Mojave Desert Air Quality Management District (MDAQMD). MDAQMD significance thresholds were used for determining the project's impacts. Construction and operation emissions are presented in Table 3.4 and summarized in Table 3.5.

Table 3.4 - Project Greenhouse Gas Emissions

Source	GHG Emissions MT/yr			
	N2O	CO2	CH4	CO2e
Area	0.000	0.0007	0.0000	0.0007
Energy	0.0001	12.32	0.0009	12.38
Mobile Sources	0.002	29.81	0.002	30.33
Solid Waste	0.000	2.57	0.15	6.38
Water/Wastewater	0.002	8.31	0.10	11.52
30-year Amortized Construction GHG				6.67
TOTAL	<i>Tons/Year / Metric Tons / Year</i>			<i>74.19 / 67.28</i>
MDAQMD Threshold	<i>100,000 Tons/Year / 90,718.5 MT/Year¹</i>			100,000/90,718.5
Exceed Threshold?				NO

¹ CalEEMod GHG Emissions for GHG CO2e is calculated in Metric Tons (MT) per year.

Table 3.5 - Project Greenhouse Gas Emissions - Summary

GHG Emissions Source	Daily Emissions	Daily Threshold	Annual Emissions Tons / Metric Tons	Annual Threshold Tons/Metric Tons	Exceeds Threshold?
Construction 2023	7,612.2	548,000	186.3 / 169.0	100,000 / 90,718.5	NO
Construction 2024	3,022.1	548,000	220.4 / 199.9	100,000 / 90,718.5	NO
Operations	225.1	548,000	74.19 / 67.3	100,000 / 90,718.5	NO

3.5 Objectionable Odors:

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not propose or require land uses that would be substantive sources of objectionable odors. Potential temporary and intermittent odors may result from construction equipment exhaust, the application of asphalt and architectural coatings, Temporary and intermittent construction-source emissions are controlled through existing requirements and industry BMPs addressing proper storage of and application construction materials.

Over the life of the Project, odors may result from storage of municipal solid waste pending its transport to area landfills. Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations.

The proposed Project would involve the use of diesel-powered construction equipment and diesel-powered vehicles pulling trailers for deliveries during operations. Diesel exhaust during construction may be noticeable temporarily at adjacent properties; however, construction activities would be temporary. During operations diesel vehicles entering the site are required to limit idling to less than 5-minutes which will reduce the impacts of diesel odors.

The proposed Project would also be required to comply with MDAQMD Rule 402. Rule 402 provides that "[a] person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." Based on the preceding, the potential for the Project to create objectionable odors affecting a substantial number of people is considered less-than- significant.

3.6 Potential Impacts to Sensitive Receptors

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.

MDAQMD Guidelines state that the following project types located within a specified distance to an existing or planned sensitive receptor land use must be evaluated to determine exposure of substantial pollutant concentrations to sensitive receptors:

- Any industrial project within 1,000 feet;
- A distribution center (40 or more trucks per day) within 1,000 feet;
- A major transportation project (50,000 or more vehicles per day) within 1,000 feet;
- A dry cleaner using perchloroethylene within 500 feet;
- A gasoline dispensing facility within 300 feet.

Table 3-6: Closest Receptors to Project Site

Business	Location	Distance
El Rancho Animal Feed Store	Adjacent property to the north	Approximately 15 feet from north boundary.
Sunset Stone	Adjacent property to the north.	Approximately 200 feet north from north boundary.
Trailer Yard (Parking/storage).	Southwest at Avenal and Los Altos	Approximately 130 feet southwest from southwest corner boundary
Industrial Fabricators	Northeast	Approximately 1,100 feet northeast from northeastern boundary.
Previous SFR sold for Future Commercial Development	South across Avenal	Approximately 60 feet south from south boundary.
Five Rivers Fleet Services	South on Yucca Terrace Dr.	Approximately 1,000 feet south from southern boundary.

3.6.1 Toxic Air Contaminants (TAC)

A toxic air contaminant is defined as an air pollutant which may cause or contribute to an increase in mortality of serious illness, or which may pose a present potential hazard to human health. The two TACs of concern with the proposed project would be diesel particulate matter (DPM) from diesel truck operations and CO Hotspots from increased traffic.

Diesel Particulate Matter

There are studies that show a correlation of adverse health impacts of diesel particulate matter (DPM) and proximity to roadways or idling diesel trucks.

CARB recommends avoiding development of urban roads with 100,000 vehicles/day, that are within 500 feet of sensitive land uses due to increased cancer risk from DPM. Additionally,

CARB recommends avoid siting new sensitive land uses within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units (TRUs) per day, or where TRU unit operations exceed 300 hours per week).

The project site as shown in Table 3-6 the closest receptors are commercial and light industrial uses not in the category of sensitive receptor. Additionally, the project is estimated to only create 12 truck trips per day none of which would be equipped with TRUs. Therefore, the impacts of DPM would be considered less than significant.

CO “Hotspot” Analysis

As discussed below, the Project would not result in potentially adverse CO concentrations or “hotspots.” Further, detailed modeling of Project-specific carbon monoxide (CO) “hot spots” is not needed to reach this conclusion.

The Basin is designated attainment under the CAAQS and NAAQS for CO. An adverse CO hotspot would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. Due to changing regulations vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in Basin have steadily declined.

The SCAQMD as part of their 2003 AQMP conducted modeling for CO Hotspot Analysis at multiple congested intersections in their South Coast Air Basin including the intersection of Wilshire Boulevard and Veteran Avenue considered one of the most congested intersections in Southern California with an ADT of approximately 100,000 vehicles. The CO concentrations modeled by the SCAQMD’s analysis identified all traffic induced CO levels below Federal and State thresholds. As the CO hotspots were not modeled at an intersection that accommodates over 100,000 vehicles per day, it can be reasonably deduced that CO hotspots would not be experienced at any intersections in the vicinity of the proposed project.

The project site has direct access to via Avenal Street and is bordered on the east by State Highway 395 as the major traffic route. As shown in 2020 Traffic Volumes on California State Highways (Caltrans 2020), average daily trips (ADT) are 24,100 north of Phelan Road and 27,300 south of Phelan Road on State Highway 395. Peak hour traffic is 2,000 ADT north and 2,250 south of Phelan Road. As shown in the Traffic Project Scoping Form (Appendix C), the project would generate 13 average daily trips on weekdays, which is nominal representing an approximately 0.05% increase north of Phelan and 0.047% increase south of Phelan if all traffic generated by the project would travel in each direction as compared to traffic on State Highway 395. Therefore, the project would not contribute a significant increase in traffic to the adjacent roadways and would not cause an impact to intersection operations.

Given the extremely low level of CO concentrations in the project area and no project-traffic related impacts at any intersections, project-related vehicle emissions are not expected to result in the CO concentrations exceeding the State or federal CO standards.

3.7 Cumulative Impacts

The MDAQMD relies on the SCAQMD guidance for determining cumulative impacts. The SCAQMD has recognized that there is typically insufficient information to quantitatively evaluate the cumulative contributions of multiple projects because each project applicant has no control over nearby projects.

The SCAQMD published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (22). In this report the AQMD clearly states (Page D-3):

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

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

Individual projects that do not generate operational or construction emissions that exceed the MDAQMD’s recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. As previously noted, the Project construction-source and operational-source air pollutant emissions would not exceed applicable MDAQMD regional thresholds. As such, Project construction and operational-source emissions are considered less than significant

4.0 Best Management Practices

The operational emissions as shown in Table 3.3 indicate that no MDAQMD Thresholds will not be exceeded. The Project will be required to comply with all applicable MDAQMD Rules and the project must also adhere to the City of Hesperia General Plan Implementing Policies. Additionally, per the California Attorney General’s Bureau of Environmental Justice, *Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act*, in order to ensure emissions impacts from the operational phases

will be reduced to the extent feasible the following Best Management Practices (BMPs) are recommended:

BMP-AQ-1 Truck Access Gate Signage: All truck access gates and loading docks within the project site shall have a sign posted that states:

- Truck drivers shall turn off engines when not in use
- Truck drivers shall shut down the engine after five minutes of continuous idling operation once the vehicle is stopped, the transmission is set to “neutral” or “park”, and the parking brake is engaged.
- Telephone numbers of the building facilities manager and CARB to report Violations

5.0 Conclusion

Based on the assessment in Section 3.0 all estimated Project emissions for construction and operations are below the MDAQMD significance threshold levels and as such impacts to the environment for Air Quality and Greenhouse Gases are less than significant. Additionally, the proposed Project will conflict with any air quality or GHG plans.



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APPENDIX A

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Sangha Trucking****Mojave Desert AQMD Air District, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Unrefrigerated Warehouse-No Rail	12.00	1000sqft	3.10	12,000.00	0
Parking Lot	27.00	Space	0.24	10,800.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Landuse per site plan

Construction Phase - No demolition phase; acrh coating increased to reflect size and scope of project as compared with similar projects

Grading - Acres graded and import per earthwork volume ananlysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

Area Mitigation - Coatings Mitigation per Rule 1113 and use Low VOC cleaning supplies if available

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

Water Mitigation - use low flow fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	0.28	3.10
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

Sangha Trucking - Mojave Desert AQMD Air District, 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	3.2414	33.1234	20.2558	0.0723	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	7,381.888 6	7,381.888 6	1.1963	0.6937	7,612.201 8
2023	4.1098	14.8139	17.2294	0.0312	0.3046	0.7046	1.0093	0.0825	0.6631	0.7456	0.0000	2,995.782 7	2,995.782 7	0.6147	0.0366	3,022.050 1
Maximum	4.1098	33.1234	20.2558	0.0723	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	7,381.888 6	7,381.888 6	1.1963	0.6937	7,612.201 8

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	3.2414	33.1234	20.2558	0.0723	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	7,381.888 6	7,381.888 6	1.1963	0.6937	7,612.201 7
2023	4.1098	14.8139	17.2294	0.0312	0.2540	0.7046	0.9587	0.0701	0.6631	0.7331	0.0000	2,995.782 7	2,995.782 7	0.6147	0.0366	3,022.050 1
Maximum	4.1098	33.1234	20.2558	0.0723	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	7,381.888 6	7,381.888 6	1.1963	0.6937	7,612.201 7

Sangha Trucking - Mojave Desert AQMD Air District, 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	60.01	0.00	53.80	60.46	0.00	49.96	0.00	0.00	0.00	0.00	0.00	0.00

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Energy	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
Mobile	0.1202	0.1408	0.9891	2.0500e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		212.2199	212.2199	0.0111	0.0103	215.5705
Total	0.4489	0.1487	0.9999	2.1000e-003	0.2024	2.3300e-003	0.2047	0.0539	2.2200e-003	0.0562		221.6617	221.6617	0.0113	0.0105	225.0689

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Energy	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
Mobile	0.1202	0.1408	0.9891	2.0500e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		212.2199	212.2199	0.0111	0.0103	215.5705
Total	0.4273	0.1487	0.9999	2.1000e-003	0.2024	2.3300e-003	0.2047	0.0539	2.2200e-003	0.0562		221.6617	221.6617	0.0113	0.0105	225.0689

Sangha Trucking - Mojave Desert AQMD Air District, 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	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/5/2022	5	5	
2	Grading	Grading	8/6/2022	8/17/2022	5	8	
3	Building Construction	Building Construction	8/18/2022	7/5/2023	5	230	
4	Paving	Paving	7/6/2023	7/31/2023	5	18	
5	Architectural Coating	Architectural Coating	8/1/2023	8/24/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 8****Acres of Paving: 1.24****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,250; Non-Residential Outdoor: 6,750; Striped Parking Area: 3,262 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

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	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	28.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					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		3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.061 9	3,686.061 9	1.1922		3,715.865 5

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	0.0713	0.0399	0.5581	1.3800e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271
Total	0.0713	0.0399	0.5581	1.3800e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5

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	0.0713	0.0399	0.5581	1.3800e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271
Total	0.0713	0.0399	0.5581	1.3800e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		140.1783	140.1783	4.1600e-003	3.8400e-003	141.4271

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.3 Grading - 2022

Unmitigated Construction On-Site

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

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	0.2275	8.5187	2.1964	0.0415	1.2632	0.1135	1.3767	0.3466	0.1085	0.4551		4,393.027 0	4,393.027 0	0.0115	0.6905	4,599.077 5
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	0.0594	0.0332	0.4651	1.1500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559
Total	0.2869	8.5519	2.6615	0.0427	1.3865	0.1141	1.5005	0.3793	0.1091	0.4884		4,509.842 2	4,509.842 2	0.0150	0.6937	4,716.933 4

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			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
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.2275	8.5187	2.1964	0.0415	1.0729	0.1135	1.1863	0.2999	0.1085	0.4084		4,393.027 0	4,393.027 0	0.0115	0.6905	4,599.077 5
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	0.0594	0.0332	0.4651	1.1500e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		116.8152	116.8152	3.4700e-003	3.2000e-003	117.8559
Total	0.2869	8.5519	2.6615	0.0427	1.1747	0.1141	1.2887	0.3273	0.1091	0.4364		4,509.842 2	4,509.842 2	0.0150	0.6937	4,716.933 4

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2022****Unmitigated Construction On-Site**

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

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	0.0208	0.4494	0.2043	2.2400e-003	0.0746	6.2800e-003	0.0809	0.0215	6.0100e-003	0.0275		235.3428	235.3428	1.2100e-003	0.0322	244.9599
Worker	0.1109	0.0620	0.8681	2.1400e-003	0.2300	1.1600e-003	0.2312	0.0610	1.0700e-003	0.0621		218.0551	218.0551	6.4700e-003	5.9800e-003	219.9977
Total	0.1317	0.5114	1.0724	4.3800e-003	0.3046	7.4400e-003	0.3121	0.0825	7.0800e-003	0.0896		453.3980	453.3980	7.6800e-003	0.0382	464.9576

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

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

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	0.0208	0.4494	0.2043	2.2400e-003	0.0640	6.2800e-003	0.0703	0.0189	6.0100e-003	0.0249		235.3428	235.3428	1.2100e-003	0.0322	244.9599
Worker	0.1109	0.0620	0.8681	2.1400e-003	0.1900	1.1600e-003	0.1912	0.0512	1.0700e-003	0.0523		218.0551	218.0551	6.4700e-003	5.9800e-003	219.9977
Total	0.1317	0.5114	1.0724	4.3800e-003	0.2540	7.4400e-003	0.2615	0.0701	7.0800e-003	0.0772		453.3980	453.3980	7.6800e-003	0.0382	464.9576

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****Unmitigated Construction On-Site**

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

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	0.0170	0.3744	0.1915	2.1700e-003	0.0746	3.8100e-003	0.0784	0.0215	3.6400e-003	0.0251		228.3329	228.3329	1.0100e-003	0.0311	237.6182
Worker	0.1023	0.0546	0.7938	2.0700e-003	0.2300	1.0900e-003	0.2311	0.0610	1.0000e-003	0.0620		212.2399	212.2399	5.8000e-003	5.5100e-003	214.0258
Total	0.1192	0.4291	0.9854	4.2400e-003	0.3046	4.9000e-003	0.3095	0.0825	4.6400e-003	0.0871		440.5728	440.5728	6.8100e-003	0.0366	451.6440

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****Mitigated Construction On-Site**

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

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	0.0170	0.3744	0.1915	2.1700e-003	0.0640	3.8100e-003	0.0678	0.0189	3.6400e-003	0.0225		228.3329	228.3329	1.0100e-003	0.0311	237.6182
Worker	0.1023	0.0546	0.7938	2.0700e-003	0.1900	1.0900e-003	0.1911	0.0512	1.0000e-003	0.0522		212.2399	212.2399	5.8000e-003	5.5100e-003	214.0258
Total	0.1192	0.4291	0.9854	4.2400e-003	0.2540	4.9000e-003	0.2589	0.0701	4.6400e-003	0.0747		440.5728	440.5728	6.8100e-003	0.0366	451.6440

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.430 4	1,805.430 4	0.5673		1,819.612 2
Paving	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0986	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.430 4	1,805.430 4	0.5673		1,819.612 2

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	0.0731	0.0390	0.5670	1.4800e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		151.5999	151.5999	4.1500e-003	3.9300e-003	152.8756
Total	0.0731	0.0390	0.5670	1.4800e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		151.5999	151.5999	4.1500e-003	3.9300e-003	152.8756

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.430 4	1,805.430 4	0.5673		1,819.612 2
Paving	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0986	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.430 4	1,805.430 4	0.5673		1,819.612 2

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	0.0731	0.0390	0.5670	1.4800e-003	0.1357	7.8000e-004	0.1365	0.0366	7.2000e-004	0.0373		151.5999	151.5999	4.1500e-003	3.9300e-003	152.8756
Total	0.0731	0.0390	0.5670	1.4800e-003	0.1357	7.8000e-004	0.1365	0.0366	7.2000e-004	0.0373		151.5999	151.5999	4.1500e-003	3.9300e-003	152.8756

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 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	3.8962					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
Total	4.0879	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0219	0.0117	0.1701	4.4000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		45.4800	45.4800	1.2400e-003	1.1800e-003	45.8627
Total	0.0219	0.0117	0.1701	4.4000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		45.4800	45.4800	1.2400e-003	1.1800e-003	45.8627

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

3.6 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	3.8962					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
Total	4.0879	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

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	0.0219	0.0117	0.1701	4.4000e-004	0.0407	2.3000e-004	0.0410	0.0110	2.1000e-004	0.0112		45.4800	45.4800	1.2400e-003	1.1800e-003	45.8627
Total	0.0219	0.0117	0.1701	4.4000e-004	0.0407	2.3000e-004	0.0410	0.0110	2.1000e-004	0.0112		45.4800	45.4800	1.2400e-003	1.1800e-003	45.8627

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1202	0.1408	0.9891	2.0500e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		212.2199	212.2199	0.0111	0.0103	215.5705
Unmitigated	0.1202	0.1408	0.9891	2.0500e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		212.2199	212.2199	0.0111	0.0103	215.5705

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	14.61	3.32	1.05	26,429	26,429
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.88	20.88	20.88	60,959	60,959
Total	35.49	24.20	21.93	87,388	87,388

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	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	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Parking Lot	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Unrefrigerated Warehouse-No Rail	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

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	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
NaturalGas Unmitigated	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

Sangha Trucking - Mojave Desert AQMD Air District, 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

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	14.0959	1.5000e-004	1.3800e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.6583	1.6583	3.0000e-005	3.0000e-005	1.6682
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	66.0822	7.1000e-004	6.4800e-003	5.4400e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7744	7.7744	1.5000e-004	1.4000e-004	7.8206
Total		8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

Sangha Trucking - Mojave Desert AQMD Air District, 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 s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0140959	1.5000e-004	1.3800e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.6583	1.6583	3.0000e-005	3.0000e-005	1.6682
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	0.0660822	7.1000e-004	6.4800e-003	5.4400e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7744	7.7744	1.5000e-004	1.4000e-004	7.8206
Total		8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

Sangha Trucking - Mojave Desert AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Unmitigated	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Total	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

Sangha Trucking - Mojave Desert AQMD Air District, 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	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2866					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Total	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

Sangha Trucking - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Sangha Trucking - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Sangha Trucking****Mojave Desert AQMD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Unrefrigerated Warehouse-No Rail	12.00	1000sqft	3.10	12,000.00	0
Parking Lot	27.00	Space	0.24	10,800.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Landuse per site plan

Construction Phase - No demolition phase; acrh coating increased to reflect size and scope of project as compared with similar projects

Grading - Acres graded and import per earthwork volume ananlysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

Area Mitigation - Coatings Mitigation per Rule 1113 and use Low VOC cleaning supplies if available

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

Water Mitigation - use low flow fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	0.28	3.10
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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	3.2343	33.1245	20.1426	0.0722	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	7,374.1580	7,374.1580	1.1964	0.6946	7,604.7230
2023	4.1077	14.8396	17.0769	0.0310	0.3046	0.7046	1.0093	0.0825	0.6631	0.7456	0.0000	2,972.7638	2,972.7638	0.6147	0.0368	2,999.1016
Maximum	4.1077	33.1245	20.1426	0.0722	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	7,374.1580	7,374.1580	1.1964	0.6946	7,604.7230

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	3.2343	33.1245	20.1426	0.0722	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	7,374.1580	7,374.1580	1.1964	0.6946	7,604.7230
2023	4.1077	14.8396	17.0769	0.0310	0.2540	0.7046	0.9587	0.0701	0.6631	0.7332	0.0000	2,972.7638	2,972.7638	0.6147	0.0368	2,999.1016
Maximum	4.1077	33.1245	20.1426	0.0722	7.7884	1.6133	9.4017	3.9729	1.4843	5.4571	0.0000	7,374.1580	7,374.1580	1.1964	0.6946	7,604.7230

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	60.01	0.00	53.80	60.46	0.00	49.96	0.00	0.00	0.00	0.00	0.00	0.00

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Energy	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
Mobile	0.0985	0.1493	0.8698	1.8800e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		194.3764	194.3764	0.0114	0.0105	197.7981
Total	0.4272	0.1572	0.8807	1.9300e-003	0.2024	2.3300e-003	0.2047	0.0539	2.2200e-003	0.0562		203.8182	203.8182	0.0116	0.0107	207.2965

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Energy	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
Mobile	0.0985	0.1493	0.8698	1.8800e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		194.3764	194.3764	0.0114	0.0105	197.7981
Total	0.4056	0.1572	0.8807	1.9300e-003	0.2024	2.3300e-003	0.2047	0.0539	2.2200e-003	0.0562		203.8182	203.8182	0.0116	0.0107	207.2965

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/5/2022	5	5	
2	Grading	Grading	8/6/2022	8/17/2022	5	8	
3	Building Construction	Building Construction	8/18/2022	7/5/2023	5	230	
4	Paving	Paving	7/6/2023	7/31/2023	5	18	
5	Architectural Coating	Architectural Coating	8/1/2023	8/24/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,250; Non-Residential Outdoor: 6,750; Striped Parking Area: 3,262 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

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	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	28.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

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

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	0.0642	0.0410	0.4448	1.2200e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763
Total	0.0642	0.0410	0.4448	1.2200e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5

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	0.0642	0.0410	0.4448	1.2200e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763
Total	0.0642	0.0410	0.4448	1.2200e-003	0.1222	7.5000e-004	0.1229	0.0329	6.9000e-004	0.0336		124.5065	124.5065	4.2200e-003	3.9100e-003	125.7763

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.3 Grading - 2022

Unmitigated Construction On-Site

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

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	0.2131	8.9880	2.2614	0.0416	1.2632	0.1136	1.3768	0.3466	0.1087	0.4553		4,398.356 1	4,398.356 1	0.0109	0.6913	4,604.641 1
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	0.0535	0.0342	0.3707	1.0200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136
Total	0.2666	9.0222	2.6320	0.0426	1.3865	0.1142	1.5007	0.3793	0.1093	0.4886		4,502.111 5	4,502.111 5	0.0144	0.6946	4,709.454 7

Sangha Trucking - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			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
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.2131	8.9880	2.2614	0.0416	1.0729	0.1136	1.1865	0.2999	0.1087	0.4086		4,398.356 1	4,398.356 1	0.0109	0.6913	4,604.641 1
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	0.0535	0.0342	0.3707	1.0200e-003	0.1018	6.2000e-004	0.1024	0.0274	5.7000e-004	0.0280		103.7554	103.7554	3.5200e-003	3.2600e-003	104.8136
Total	0.2666	9.0222	2.6320	0.0426	1.1747	0.1142	1.2889	0.3273	0.1093	0.4366		4,502.111 5	4,502.111 5	0.0144	0.6946	4,709.454 7

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

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	0.0198	0.4752	0.2120	2.2400e-003	0.0746	6.3000e-003	0.0809	0.0215	6.0200e-003	0.0275		235.7232	235.7232	1.1600e-003	0.0323	245.3696
Worker	0.0998	0.0638	0.6919	1.9000e-003	0.2300	1.1600e-003	0.2312	0.0610	1.0700e-003	0.0621		193.6768	193.6768	6.5700e-003	6.0800e-003	195.6521
Total	0.1196	0.5390	0.9039	4.1400e-003	0.3046	7.4600e-003	0.3121	0.0825	7.0900e-003	0.0896		429.3999	429.3999	7.7300e-003	0.0384	441.0216

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

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

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	0.0198	0.4752	0.2120	2.2400e-003	0.0640	6.3000e-003	0.0703	0.0189	6.0200e-003	0.0249		235.7232	235.7232	1.1600e-003	0.0323	245.3696
Worker	0.0998	0.0638	0.6919	1.9000e-003	0.1900	1.1600e-003	0.1912	0.0512	1.0700e-003	0.0523		193.6768	193.6768	6.5700e-003	6.0800e-003	195.6521
Total	0.1196	0.5390	0.9039	4.1400e-003	0.2540	7.4600e-003	0.2615	0.0701	7.0900e-003	0.0772		429.3999	429.3999	7.7300e-003	0.0384	441.0216

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

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	0.0159	0.3985	0.1982	2.1800e-003	0.0746	3.8200e-003	0.0784	0.0215	3.6500e-003	0.0251		228.9741	228.9741	9.6000e-004	0.0312	238.2994
Worker	0.0922	0.0562	0.6347	1.8400e-003	0.2300	1.0900e-003	0.2311	0.0610	1.0000e-003	0.0620		188.5798	188.5798	5.9200e-003	5.6000e-003	190.3961
Total	0.1081	0.4547	0.8329	4.0200e-003	0.3046	4.9100e-003	0.3095	0.0825	4.6500e-003	0.0872		417.5539	417.5539	6.8800e-003	0.0368	428.6955

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

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	0.0159	0.3985	0.1982	2.1800e-003	0.0640	3.8200e-003	0.0678	0.0189	3.6500e-003	0.0225		228.9741	228.9741	9.6000e-004	0.0312	238.2994
Worker	0.0922	0.0562	0.6347	1.8400e-003	0.1900	1.0900e-003	0.1911	0.0512	1.0000e-003	0.0522		188.5798	188.5798	5.9200e-003	5.6000e-003	190.3961
Total	0.1081	0.4547	0.8329	4.0200e-003	0.2540	4.9100e-003	0.2589	0.0701	4.6500e-003	0.0747		417.5539	417.5539	6.8800e-003	0.0368	428.6955

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.430 4	1,805.430 4	0.5673		1,819.612 2
Paving	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0986	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.430 4	1,805.430 4	0.5673		1,819.612 2

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	0.0659	0.0401	0.4534	1.3200e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		134.6998	134.6998	4.2300e-003	4.0000e-003	135.9972
Total	0.0659	0.0401	0.4534	1.3200e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		134.6998	134.6998	4.2300e-003	4.0000e-003	135.9972

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.430 4	1,805.430 4	0.5673		1,819.612 2
Paving	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0986	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.430 4	1,805.430 4	0.5673		1,819.612 2

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	0.0659	0.0401	0.4534	1.3200e-003	0.1357	7.8000e-004	0.1365	0.0366	7.2000e-004	0.0373		134.6998	134.6998	4.2300e-003	4.0000e-003	135.9972
Total	0.0659	0.0401	0.4534	1.3200e-003	0.1357	7.8000e-004	0.1365	0.0366	7.2000e-004	0.0373		134.6998	134.6998	4.2300e-003	4.0000e-003	135.9972

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.6 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	3.8962					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
Total	4.0879	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0198	0.0120	0.1360	3.9000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		40.4100	40.4100	1.2700e-003	1.2000e-003	40.7992
Total	0.0198	0.0120	0.1360	3.9000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		40.4100	40.4100	1.2700e-003	1.2000e-003	40.7992

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

3.6 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	3.8962					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
Total	4.0879	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

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	0.0198	0.0120	0.1360	3.9000e-004	0.0407	2.3000e-004	0.0410	0.0110	2.1000e-004	0.0112		40.4100	40.4100	1.2700e-003	1.2000e-003	40.7992
Total	0.0198	0.0120	0.1360	3.9000e-004	0.0407	2.3000e-004	0.0410	0.0110	2.1000e-004	0.0112		40.4100	40.4100	1.2700e-003	1.2000e-003	40.7992

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0985	0.1493	0.8698	1.8800e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		194.3764	194.3764	0.0114	0.0105	197.7981
Unmitigated	0.0985	0.1493	0.8698	1.8800e-003	0.2024	1.7100e-003	0.2041	0.0539	1.6000e-003	0.0555		194.3764	194.3764	0.0114	0.0105	197.7981

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	14.61	3.32	1.05	26,429	26,429
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.88	20.88	20.88	60,959	60,959
Total	35.49	24.20	21.93	87,388	87,388

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	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	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Parking Lot	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Unrefrigerated Warehouse-No Rail	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

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	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888
NaturalGas Unmitigated	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	14.0959	1.5000e-004	1.3800e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.6583	1.6583	3.0000e-005	3.0000e-005	1.6682
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	66.0822	7.1000e-004	6.4800e-003	5.4400e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7744	7.7744	1.5000e-004	1.4000e-004	7.8206
Total		8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0140959	1.5000e-004	1.3800e-003	1.1600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.6583	1.6583	3.0000e-005	3.0000e-005	1.6682
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	0.0660822	7.1000e-004	6.4800e-003	5.4400e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7744	7.7744	1.5000e-004	1.4000e-004	7.8206
Total		8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4327	9.4327	1.8000e-004	1.7000e-004	9.4888

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Unmitigated	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Total	0.3278	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

Sangha Trucking - Mojave Desert AQMD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2866					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003
Total	0.3062	4.0000e-005	4.2300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.0800e-003	9.0800e-003	2.0000e-005		9.6800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

Sangha Trucking - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Sangha Trucking - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Sangha Trucking****Mojave Desert AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Unrefrigerated Warehouse-No Rail	12.00	1000sqft	3.10	12,000.00	0
Parking Lot	27.00	Space	0.24	10,800.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	30
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Landuse per site plan

Construction Phase - No demolition phase; acrh coating increased to reflect size and scope of project as compared with similar projects

Grading - Acres graded and import per earthwork volume ananlysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

Area Mitigation - Coatings Mitigation per Rule 1113 and use Low VOC cleaning supplies if available

Sangha Trucking - Mojave Desert AQMD Air District, Annual

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

Water Mitigation - use low flow fixtures

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	0.28	3.10
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

Sangha Trucking - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1052	0.9861	0.9617	1.9000e-003	0.0978	0.0479	0.1457	0.0445	0.0449	0.0894	0.0000	166.9196	166.9196	0.0334	4.2300e-003	169.0143
2023	0.1588	1.0782	1.2701	2.2800e-003	0.0218	0.0514	0.0732	5.9000e-003	0.0484	0.0543	0.0000	198.1472	198.1472	0.0419	2.2800e-003	199.8735
Maximum	0.1588	1.0782	1.2701	2.2800e-003	0.0978	0.0514	0.1457	0.0445	0.0484	0.0894	0.0000	198.1472	198.1472	0.0419	4.2300e-003	199.8735

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1052	0.9861	0.9617	1.9000e-003	0.0473	0.0479	0.0951	0.0199	0.0449	0.0648	0.0000	166.9194	166.9194	0.0334	4.2300e-003	169.0142
2023	0.1588	1.0782	1.2701	2.2800e-003	0.0182	0.0514	0.0696	5.0100e-003	0.0484	0.0534	0.0000	198.1470	198.1470	0.0419	2.2800e-003	199.8733
Maximum	0.1588	1.0782	1.2701	2.2800e-003	0.0473	0.0514	0.0951	0.0199	0.0484	0.0648	0.0000	198.1470	198.1470	0.0419	4.2300e-003	199.8733

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.29	0.00	24.75	50.55	0.00	17.73	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	0.6819	0.6819
2	11-1-2022	1-31-2023	0.5746	0.5746
3	2-1-2023	4-30-2023	0.5250	0.5250
4	5-1-2023	7-31-2023	0.4819	0.4819
5	8-1-2023	9-30-2023	0.0465	0.0465
		Highest	0.6819	0.6819

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0598	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	1.6000e-004	1.4300e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	12.3179	12.3179	9.4000e-004	1.4000e-004	12.3827
Mobile	0.0161	0.0252	0.1524	3.2000e-004	0.0330	2.8000e-004	0.0333	8.8000e-003	2.7000e-004	9.0700e-003	0.0000	29.8065	29.8065	1.7500e-003	1.6100e-003	30.3292
Waste						0.0000	0.0000		0.0000	0.0000	2.5739	0.0000	2.5739	0.1521	0.0000	6.3768
Water						0.0000	0.0000		0.0000	0.0000	0.9650	7.3457	8.3106	0.0997	2.4200e-003	11.5237
Total	0.0760	0.0267	0.1540	3.3000e-004	0.0330	3.9000e-004	0.0334	8.8000e-003	3.8000e-004	9.1800e-003	3.5389	49.4708	53.0097	0.2545	4.1700e-003	60.6131

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0558	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	1.6000e-004	1.4300e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	12.3179	12.3179	9.4000e-004	1.4000e-004	12.3827
Mobile	0.0161	0.0252	0.1524	3.2000e-004	0.0330	2.8000e-004	0.0333	8.8000e-003	2.7000e-004	9.0700e-003	0.0000	29.8065	29.8065	1.7500e-003	1.6100e-003	30.3292
Waste						0.0000	0.0000		0.0000	0.0000	2.5739	0.0000	2.5739	0.1521	0.0000	6.3768
Water						0.0000	0.0000		0.0000	0.0000	0.8457	6.4579	7.3036	0.0874	2.1200e-003	10.1196
Total	0.0721	0.0267	0.1540	3.3000e-004	0.0330	3.9000e-004	0.0334	8.8000e-003	3.8000e-004	9.1800e-003	3.4196	48.5831	52.0027	0.2422	3.8700e-003	59.2091

	ROG	NOx	CO	SO2	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	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	1.79	1.90	4.84	7.19	2.32

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/5/2022	5	5	
2	Grading	Grading	8/6/2022	8/17/2022	5	8	
3	Building Construction	Building Construction	8/18/2022	7/5/2023	5	230	

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4	Paving	Paving	7/6/2023	7/31/2023	5	18
5	Architectural Coating	Architectural Coating	8/1/2023	8/24/2023	5	18

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 8****Acres of Paving: 1.24****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,250; Non-Residential Outdoor: 6,750; Striped Parking Area: 3,262 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
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	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	28.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0491	4.0300e-003	0.0532	0.0253	3.7100e-003	0.0290	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274

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

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2904	0.2904	1.0000e-005	1.0000e-005	0.2934
Total	1.5000e-004	1.1000e-004	1.1900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2904	0.2904	1.0000e-005	1.0000e-005	0.2934

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	9.8500e-003	0.0000	9.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0192	4.0300e-003	0.0232	9.8500e-003	3.7100e-003	0.0136	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274

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3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1900e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2904	0.2904	1.0000e-005	1.0000e-005	0.2934
Total	1.5000e-004	1.1000e-004	1.1900e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2904	0.2904	1.0000e-005	1.0000e-005	0.2934

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0283	3.7600e-003	0.0321	0.0137	3.4600e-003	0.0172	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

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3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0361	8.8900e-003	1.7000e-004	4.9700e-003	4.5000e-004	5.4300e-003	1.3700e-003	4.3000e-004	1.8000e-003	0.0000	15.9493	15.9493	4.0000e-005	2.5100e-003	16.6973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.5900e-003	0.0000	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3872	0.3872	1.0000e-005	1.0000e-005	0.3912
Total	1.0900e-003	0.0362	0.0105	1.7000e-004	5.4500e-003	4.5000e-004	5.9200e-003	1.5000e-003	4.3000e-004	1.9300e-003	0.0000	16.3364	16.3364	5.0000e-005	2.5200e-003	17.0885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0111	0.0000	0.0111	5.3400e-003	0.0000	5.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0111	3.7600e-003	0.0148	5.3400e-003	3.4600e-003	8.8000e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

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3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0361	8.8900e-003	1.7000e-004	4.2300e-003	4.5000e-004	4.6800e-003	1.1800e-003	4.3000e-004	1.6200e-003	0.0000	15.9493	15.9493	4.0000e-005	2.5100e-003	16.6973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.5900e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3872	0.3872	1.0000e-005	1.0000e-005	0.3912
Total	1.0900e-003	0.0362	0.0105	1.7000e-004	4.6300e-003	4.5000e-004	5.0800e-003	1.2900e-003	4.3000e-004	1.7300e-003	0.0000	16.3364	16.3364	5.0000e-005	2.5200e-003	17.0885

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3867	112.3867	0.0269	0.0000	113.0599
Total	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3867	112.3867	0.0269	0.0000	113.0599

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0230	0.0101	1.1000e-004	3.5700e-003	3.0000e-004	3.8700e-003	1.0300e-003	2.9000e-004	1.3200e-003	0.0000	10.3618	10.3618	5.0000e-005	1.4200e-003	10.7860
Worker	4.5100e-003	3.2900e-003	0.0360	9.0000e-005	0.0110	6.0000e-005	0.0110	2.9100e-003	5.0000e-005	2.9600e-003	0.0000	8.7625	8.7625	3.0000e-004	2.8000e-004	8.8530
Total	5.4800e-003	0.0263	0.0461	2.0000e-004	0.0145	3.6000e-004	0.0149	3.9400e-003	3.4000e-004	4.2800e-003	0.0000	19.1243	19.1243	3.5000e-004	1.7000e-003	19.6390

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3866	112.3866	0.0269	0.0000	113.0597
Total	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3866	112.3866	0.0269	0.0000	113.0597

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0230	0.0101	1.1000e-004	3.0600e-003	3.0000e-004	3.3700e-003	9.1000e-004	2.9000e-004	1.2000e-003	0.0000	10.3618	10.3618	5.0000e-005	1.4200e-003	10.7860
Worker	4.5100e-003	3.2900e-003	0.0360	9.0000e-005	9.0600e-003	6.0000e-005	9.1100e-003	2.4400e-003	5.0000e-005	2.5000e-003	0.0000	8.7625	8.7625	3.0000e-004	2.8000e-004	8.8530
Total	5.4800e-003	0.0263	0.0461	2.0000e-004	0.0121	3.6000e-004	0.0125	3.3500e-003	3.4000e-004	3.7000e-003	0.0000	19.1243	19.1243	3.5000e-004	1.7000e-003	19.6390

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	0.9566	1.0802	1.7900e-003		0.0465	0.0465		0.0438	0.0438	0.0000	154.1502	154.1502	0.0367	0.0000	155.0669
Total	0.1046	0.9566	1.0802	1.7900e-003		0.0465	0.0465		0.0438	0.0438	0.0000	154.1502	154.1502	0.0367	0.0000	155.0669

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0800e-003	0.0263	0.0130	1.4000e-004	4.8900e-003	2.5000e-004	5.1400e-003	1.4100e-003	2.4000e-004	1.6500e-003	0.0000	13.7911	13.7911	6.0000e-005	1.8800e-003	14.3529
Worker	5.7000e-003	3.9800e-003	0.0452	1.3000e-004	0.0150	7.0000e-005	0.0151	3.9900e-003	7.0000e-005	4.0600e-003	0.0000	11.6973	11.6973	3.7000e-004	3.5000e-004	11.8114
Total	6.7800e-003	0.0303	0.0582	2.7000e-004	0.0199	3.2000e-004	0.0202	5.4000e-003	3.1000e-004	5.7100e-003	0.0000	25.4884	25.4884	4.3000e-004	2.2300e-003	26.1643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	0.9566	1.0802	1.7900e-003		0.0465	0.0465		0.0438	0.0438	0.0000	154.1500	154.1500	0.0367	0.0000	155.0667
Total	0.1046	0.9566	1.0802	1.7900e-003		0.0465	0.0465		0.0438	0.0438	0.0000	154.1500	154.1500	0.0367	0.0000	155.0667

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0800e-003	0.0263	0.0130	1.4000e-004	4.2000e-003	2.5000e-004	4.4500e-003	1.2400e-003	2.4000e-004	1.4800e-003	0.0000	13.7911	13.7911	6.0000e-005	1.8800e-003	14.3529
Worker	5.7000e-003	3.9800e-003	0.0452	1.3000e-004	0.0124	7.0000e-005	0.0125	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	11.6973	11.6973	3.7000e-004	3.5000e-004	11.8114
Total	6.7800e-003	0.0303	0.0582	2.7000e-004	0.0166	3.2000e-004	0.0169	4.5900e-003	3.1000e-004	4.9000e-003	0.0000	25.4884	25.4884	4.3000e-004	2.2300e-003	26.1643

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.8800e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565

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3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.3700e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1308	1.1308	4.0000e-005	3.0000e-005	1.1418
Total	5.5000e-004	3.8000e-004	4.3700e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1308	1.1308	4.0000e-005	3.0000e-005	1.1418

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.8800e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565

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3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.3700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1308	1.1308	4.0000e-005	3.0000e-005	1.1418
Total	5.5000e-004	3.8000e-004	4.3700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1308	1.1308	4.0000e-005	3.0000e-005	1.1418

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	0.0368	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014

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3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.3100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3392	0.3392	1.0000e-005	1.0000e-005	0.3425
Total	1.7000e-004	1.2000e-004	1.3100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3392	0.3392	1.0000e-005	1.0000e-005	0.3425

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	0.0368	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014

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3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.3100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3392	0.3392	1.0000e-005	1.0000e-005	0.3425
Total	1.7000e-004	1.2000e-004	1.3100e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3392	0.3392	1.0000e-005	1.0000e-005	0.3425

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0161	0.0252	0.1524	3.2000e-004	0.0330	2.8000e-004	0.0333	8.8000e-003	2.7000e-004	9.0700e-003	0.0000	29.8065	29.8065	1.7500e-003	1.6100e-003	30.3292
Unmitigated	0.0161	0.0252	0.1524	3.2000e-004	0.0330	2.8000e-004	0.0333	8.8000e-003	2.7000e-004	9.0700e-003	0.0000	29.8065	29.8065	1.7500e-003	1.6100e-003	30.3292

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	14.61	3.32	1.05	26,429	26,429
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	20.88	20.88	20.88	60,959	60,959
Total	35.49	24.20	21.93	87,388	87,388

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Parking Lot	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423
Unrefrigerated Warehouse-No Rail	0.530590	0.056931	0.174803	0.137616	0.029294	0.007692	0.006155	0.022126	0.000483	0.000158	0.027801	0.000928	0.005423

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.7562	10.7562	9.1000e-004	1.1000e-004	10.8117
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.7562	10.7562	9.1000e-004	1.1000e-004	10.8117
NaturalGas Mitigated	1.6000e-004	1.4300e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5617	1.5617	3.0000e-005	3.0000e-005	1.5710
NaturalGas Unmitigated	1.6000e-004	1.4300e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5617	1.5617	3.0000e-005	3.0000e-005	1.5710

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	5145	3.0000e-005	2.5000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2746	0.2746	1.0000e-005	1.0000e-005	0.2762
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	24120	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2871	1.2871	2.0000e-005	2.0000e-005	1.2948
Total		1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5617	1.5617	3.0000e-005	3.0000e-005	1.5710

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	5145	3.0000e-005	2.5000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2746	0.2746	1.0000e-005	1.0000e-005	0.2762
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	24120	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2871	1.2871	2.0000e-005	2.0000e-005	1.2948
Total		1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5617	1.5617	3.0000e-005	3.0000e-005	1.5710

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	13785	2.4447	2.1000e-004	3.0000e-005	2.4573
Parking Lot	15246	2.7038	2.3000e-004	3.0000e-005	2.7178
Parking Lot	3780	0.6704	6.0000e-005	1.0000e-005	0.6738
Unrefrigerated Warehouse-No Rail	27840	4.9373	4.2000e-004	5.0000e-005	4.9628
Total		10.7562	9.2000e-004	1.2000e-004	10.8117

Sangha Trucking - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	13785	2.4447	2.1000e-004	3.0000e-005	2.4573
Parking Lot	15246	2.7038	2.3000e-004	3.0000e-005	2.7178
Parking Lot	3780	0.6704	6.0000e-005	1.0000e-005	0.6738
Unrefrigerated Warehouse-No Rail	27840	4.9373	4.2000e-004	5.0000e-005	4.9628
Total		10.7562	9.2000e-004	1.2000e-004	10.8117

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

Sangha Trucking - Mojave Desert AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0558	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Unmitigated	0.0598	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Total	0.0598	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Total	0.0559	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

Sangha Trucking - Mojave Desert AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.3036	0.0874	2.1200e-003	10.1196
Unmitigated	8.3106	0.0997	2.4200e-003	11.5237

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.266601 / 0.1634	1.0222	8.7700e-003	2.1000e-004	1.3053
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.775 / 0	7.2885	0.0910	2.2000e-003	10.2184
Total		8.3106	0.0997	2.4100e-003	11.5237

Sangha Trucking - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.233649 / 0.153433	0.9160	7.6800e-003	1.9000e-004	1.1642
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.43201 / 0	6.3876	0.0797	1.9300e-003	8.9554
Total		7.3036	0.0874	2.1200e-003	10.1196

8.0 Waste Detail

8.1 Mitigation Measures Waste

Sangha Trucking - Mojave Desert AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.5739	0.1521	0.0000	6.3768
Unmitigated	2.5739	0.1521	0.0000	6.3768

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.4	0.2842	0.0168	0.0000	0.7041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.28	2.2897	0.1353	0.0000	5.6727
Total		2.5739	0.1521	0.0000	6.3768

Sangha Trucking - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.4	0.2842	0.0168	0.0000	0.7041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.28	2.2897	0.1353	0.0000	5.6727
Total		2.5739	0.1521	0.0000	6.3768

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Sangha Trucking - Mojave Desert AQMD Air District, Annual

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

11.0 Vegetation

Sangha Trucking**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Mojave Desert AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.72000E-003	1.17300E-002	1.63000E-002	3.00000E-005	6.40000E-004	6.40000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.40000E-004	0.00000E+000	2.30137E+000
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.62800E-002	3.99590E-001	1.87050E-001	5.80000E-004	1.66400E-002	1.53100E-002	0.00000E+000	5.10125E+001	5.10125E+001	1.65000E-002	0.00000E+000	5.14250E+001
Excavators	8.10000E-004	7.11000E-003	1.30200E-002	2.00000E-005	3.40000E-004	3.20000E-004	0.00000E+000	1.81442E+000	1.81442E+000	5.90000E-004	0.00000E+000	1.82910E+000
Forklifts	3.69900E-002	3.44940E-001	3.96260E-001	5.30000E-004	2.20000E-002	2.02400E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.63500E-002	3.22610E-001	4.22300E-001	7.60000E-004	1.56500E-002	1.56500E-002	0.00000E+000	6.49989E+001	6.49989E+001	2.96000E-003	0.00000E+000	6.50728E+001
Graders	1.66000E-003	2.10300E-002	6.89000E-003	3.00000E-005	6.70000E-004	6.20000E-004	0.00000E+000	2.32703E+000	2.32703E+000	7.50000E-004	0.00000E+000	2.34585E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71670E+000	3.71670E+000	1.20000E-003	0.00000E+000	3.74675E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83104E+000	4.83104E+000	1.56000E-003	0.00000E+000	4.87010E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11206E+000	3.11206E+000	1.01000E-003	0.00000E+000	3.13722E+000
Rubber Tired Dozers	9.63000E-003	1.01130E-001	4.11900E-002	1.00000E-004	4.80000E-003	4.42000E-003	0.00000E+000	8.62815E+000	8.62815E+000	2.79000E-003	0.00000E+000	8.69791E+000
Tractors/Loaders/Backhoes	5.23800E-002	5.32090E-001	7.43740E-001	1.04000E-003	2.73700E-002	2.51800E-002	0.00000E+000	9.10241E+001	9.10241E+001	2.94400E-002	0.00000E+000	9.17601E+001
Welders	3.03400E-002	1.65420E-001	1.93830E-001	2.90000E-004	6.76000E-003	6.76000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.46000E-003	0.00000E+000	2.17068E+001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.72000E-003	1.17300E-002	1.63000E-002	3.00000E-005	6.40000E-004	6.40000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.40000E-004	0.00000E+000	2.30136E+000
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.62800E-002	3.99590E-001	1.87050E-001	5.80000E-004	1.66400E-002	1.53100E-002	0.00000E+000	5.10124E+001	5.10124E+001	1.65000E-002	0.00000E+000	5.14249E+001
Excavators	8.10000E-004	7.11000E-003	1.30200E-002	2.00000E-005	3.40000E-004	3.20000E-004	0.00000E+000	1.81442E+000	1.81442E+000	5.90000E-004	0.00000E+000	1.82909E+000
Forklifts	3.69900E-002	3.44940E-001	3.96260E-001	5.30000E-004	2.20000E-002	2.02400E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.63400E-002	3.22610E-001	4.22300E-001	7.60000E-004	1.56500E-002	1.56500E-002	0.00000E+000	6.49988E+001	6.49988E+001	2.96000E-003	0.00000E+000	6.50727E+001
Graders	1.66000E-003	2.10300E-002	6.89000E-003	3.00000E-005	6.70000E-004	6.20000E-004	0.00000E+000	2.32703E+000	2.32703E+000	7.50000E-004	0.00000E+000	2.34585E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71669E+000	3.71669E+000	1.20000E-003	0.00000E+000	3.74674E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83103E+000	4.83103E+000	1.56000E-003	0.00000E+000	4.87009E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11205E+000	3.11205E+000	1.01000E-003	0.00000E+000	3.13721E+000
Rubber Tired Dozers	9.63000E-003	1.01130E-001	4.11900E-002	1.00000E-004	4.80000E-003	4.42000E-003	0.00000E+000	8.62814E+000	8.62814E+000	2.79000E-003	0.00000E+000	8.69790E+000
Tractors/Loaders/Balckhoes	5.23800E-002	5.32090E-001	7.43740E-001	1.04000E-003	2.73700E-002	2.51800E-002	0.00000E+000	9.10240E+001	9.10240E+001	2.94400E-002	0.00000E+000	9.17600E+001
Welders	3.03400E-002	1.65420E-001	1.93830E-001	2.90000E-004	6.76000E-003	6.76000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.46000E-003	0.00000E+000	2.17068E+001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.34524E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17618E-006	1.17618E-006	0.00000E+000	0.00000E+000	1.16675E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	5.46717E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	2.75103E-004	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.07572E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.69056E-006	2.69056E-006	0.00000E+000	0.00000E+000	2.66898E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.06995E-006	2.06995E-006	0.00000E+000	0.00000E+000	2.05335E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.21331E-006	3.21331E-006	0.00000E+000	0.00000E+000	3.18754E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15900E-006	1.15900E-006	0.00000E+000	0.00000E+000	1.14970E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20847E-006	1.20847E-006	0.00000E+000	0.00000E+000	1.19878E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	1.38205E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
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Sangha Trucking**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	20.00		
Yes	Clean Paved Road	% PM Reduction	20.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.18	0.17
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.17	0.15
Grading	Fugitive Dust	0.03	0.01	0.01	0.01	0.61	0.61
Grading	Roads	0.01	0.00	0.00	0.00	0.15	0.14
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.17	0.18
Site Preparation	Fugitive Dust	0.05	0.03	0.02	0.01	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.20

Operational Percent Reduction Summary

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	12.36	12.09	12.12	12.36	12.03	12.18
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

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

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

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

No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
Yes	Use Low VOC Paint (Non-residential Interior)	50.00
Yes	Use Low VOC Paint (Non-residential Exterior)	50.00
Yes	Use Low VOC Paint (Parking)	50.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	