



Technical Memorandum

Kevin P. Carr, MS.

Date: July 3, 2022

Re: Adelanto TTM20486 – 166 SFR Development Project - 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 166 lot residential project on 39.53 acres.

2.0 Project Location & Description

- 2.1 Project Location:** The proposed project site is located in the City of Adelanto, San Bernardino, California on the north side of Cactus Road, west of Daisy Road, and east of Aster Road, and is referred to as APN: 0459-132-34-000.
- 2.2 Description:** The Applicant is proposing a tentative tract map to subdivide approximately 39.53 acres into 166 single-family residential lots with a minimum lot size of 5,000 square feet.

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 (CO ₂ e) 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 166 “Single Family Housing” units and 9.57 acres of “Other Asphalt Surfaces” for associated and adjacent roadway development. Construction was estimated for a 955-day construction schedule, with default values used for the schedule, each construction phase including site preparation, grading, building construction, paving, and architectural coating as well as defaults 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 *

Year	Emissions (lbs/day)					
	ROG	NOX	CO	SOX	PM10	PM2.5
Construction 2022	3.73	39.85	29.90	0.07	9.40	5.46
Construction 2023	2.56	17.97	24.40	0.06	2.83	1.27
Construction 2024	2.39	16.94	23.79	0.06	2.75	1.19
Construction 2025	2.32	15.89	23.23	0.06	2.66	1.11
Construction 2026	36.41	8.60	14.92	0.02	0.52	0.41
Maximum Daily Emissions	36.41	39.85	29.90	0.07	9.40	5.46
MDAQMD Regional Threshold	75	100	550	150	150	55
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 (residence emissions), mobile (transportation emissions), and area (on-going architectural coatings, consumer product use, landscaping maintenance emissions). Default values were used with the exception of selecting “no wood burning hearths”. MDAQMD significance thresholds were used for determining the project’s impacts Operation emissions are summarized in Table 3.3.

Table 3.3 - Summary of Peak Operational Emissions

Maximum Daily Emissions	Emissions (lbs/day)					
	ROG	NOX	CO	SOX	PM10	PM2.5
Maximum Daily Emissions	13.39	10.74	61.224	0.12	9.94	2.98
MDAQMD Regional Threshold	55	55	550	150	150	55
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. The CalEEMod program outputs annual CO2e emissions in Metric Tons per year (MTCO2e/Year), however the MDAQMD threshold is in tons per year (Tons/Year), therefore the emissions results in the tables are included as both MTCO2e/Year and CO2e Tons/Year. 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	0.014	245.39	0.16	253.42
Energy	0.007	485.05	0.025	487.75
Mobile Sources	0.080	1,497.83	0.087	1,523.90
Solid Waste	0.000	39.53	2.34	97.94
Water/Wastewater	0.009	41.84	0.34	53.33
30-year Amortized Construction GHG				38.36
TOTAL		<i>Tons/Year / Metric Tons / Year</i>		<i>2,689.9 / 2,440.22</i>
MDAQMD Threshold		<i>100,000 Tons/Year / 90,718.5 MT/Year¹</i>		100,000/90,718.5
Exceed Threshold?				NO

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 2022	6,690.9	548,000	324.2 / 294.1	100,000 / 90,718.5	NO
Construction 2023	6,031.4	548,000	789.6 / 716.3	100,000 / 90,718.5	NO
Construction 2024	5,949.7	548,000	784.7 / 711.9	100,000 / 90,718.5	NO
Construction 2025	5,873.9	548,000	675.6 / 621.9	100,000 / 90,718.5	NO
Construction 2026	2,319.1	548,000	24.3 / 22.0	100,000 / 90,718.5	NO
Operations	17,565.9	548,000	2,663.5 / 2,416.3	100,000 / 90,718.5	NO

3.5 Objectionable Odors: Potential odor sources associated with the Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project’s long-term operational uses.

The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City’s solid waste regulations. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required.

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

3.6 Sensitive Receptors: A sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant. The following are land uses (sensitive sites) where sensitive receptors are typically located:

- Schools, playgrounds, and childcare centers
- Long-term health care facilities
- Rehabilitation centers
- Convalescent centers
- Hospitals
- Retirement homes
- Residences

The closest sensitive receptors to the Project site include:

- Adelanto High School located approximately 1,870 feet west from the southwest corner of the site and approximately 2,655 feet from the center of the site.
- Donald E. Bradach Elementary School located approximately 3,550 feet from the southeast corner of the site and approximately 4,260 feet from the center of the site.
- Single family residential development located approximately 2,800 feet south from the southern boundary of the site.

The properties immediately adjacent and surrounding the Project site are vacant undeveloped parcels additionally, the nearest sensitive receptors are located over ¼ mile away and the Project would be compatible with surrounding land uses and would not adversely impact sensitive receptors.

The Project is a residential subdivision and does not produce toxic air emissions such as those generated by industrial manufacturing uses or uses that generate heavy-duty diesel truck emissions.

According to the MDAQMD CEQA and Federal Conformity Guidelines, the following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated:

- 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; and,
- A gasoline dispensing facility within 300 feet.

The Project is a proposal to subdivide the property into 166 single-family lots. The Project does not meet the criteria listed above. As such, no impact will occur.

3.7 Cumulative Impacts: The project area is designated as a non-attainment area for ozone and a non-attainment area for PM2.5 and PM10. The Project would comply with the mandatory requirements of MDAQMD's Rule 403 (fugitive dust control) during construction, as well as all other adopted AQMP emissions control measures. The project also is required to comply with California Code of Regulations Title 13, Division 3, and specifically its Chapter 1, Article 4.5, Section 2025, "Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, from In- Use Heavy-Duty Diesel-Fueled Vehicles" and its Chapter 10, Article 1, Section 2485, "Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling." Per MDAQMD rules and mandates, and California Code of Regulation requirements, as well as the CEQA requirement that significant impacts be mitigated to the extent feasible, these same requirements are imposed on all projects in the South Coast Air Basin.

In determining whether or not the project would 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 (including releasing emissions, which exceed quantitative thresholds for ozone precursors), the non-attainment pollutants of concern for this impact are ozone, PM2.5 and PM10. In developing the thresholds of significance for air pollutants disclosed above the MDAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions.

As shown in Tables 3.2 through 3.5 above, the project does not exceed the identified significance thresholds, as such, emissions would not be cumulatively considerable

3.8 Conformity and Consistency: The following analysis is consistent with the preferred analysis approach recommended by the MDAQMD *California Environmental Quality Act (CEQA) and Federal Conformity Guidelines*

3.8.1 Conformity with Air Quality Management Plans: The Project is located within the Mojave Desert Air Basin and under the jurisdiction of the Mojave Desert Air Quality Management District. Under the Federal Clean Air Act the Mojave Desert Air Quality Management District has adopted a variety of attainment plans (i.e. "Air Quality Management Plans") for a variety of non-attainment pollutants. A complete list of the various air quality management plans is available from the Mojave Desert Air Quality Management District located at 14306 Park Avenue, Victorville, CA 92392 or on their website at: <https://www.mdaqmd.gov/rules/overview>

The Mojave Desert Air Quality Management District is responsible for maintaining and ensuring compliance with the various Air Quality Management Plans. Conformity is determined based on the following criteria:

- A project is non-conforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project may also be non-conforming if it increases the gross number of dwelling units, increases the number of trips, and/or increases the overall vehicle miles traveled in an affected area (relative to the applicable land use plan).
- A project is conforming if it complies with all applicable Mojave Desert Air Quality Management District rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan).

3.8.2 Consistency with Emission Thresholds: As shown in Tables 3.2 through and 3.5, the Project would not exceed Mojave Desert Air Quality Management District significance thresholds for any criteria pollutant during construction or during long-term operation. Accordingly, the Project's air quality emissions are less than significant.

3.8.3 Consistency with Control Measures: The construction contractors are required to comply with rules, regulations, and control measures to control fugitive dust from grading (Rule 403) and the application of architectural coatings during building construction (Rule 1113).

3.8.4 Consistency with Growth Forecasts: The Project site is currently designated as Single Family Residential (R-1) by the General Plan Land Use & Zoning Map. The R-1 zone district is intended for the development of single-family detached housing at a density of up to four (4) units per gross acre. Development at this density requires full urban levels of service and public improvements. The R-1 land use designation was the land use designation that was used by the MDAQMD to generate the growth forecasts for the air quality plans referenced above. The proposed R-S5 zone district is intended for the development of single-family detached housing at a density of up to five (5) units per gross acre. Development at this density would increase the number of dwelling units allowed by ten (10) units. An additional ten (10) units would not substantially change the growth assumptions used in the MDAQMD plans.

4.0 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.



APPENDIX A

TTM 20486 - Adelanto - Mojave Desert AQMD Air District, Summer

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

TTM 20486 - Adelanto
Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	166.00	Dwelling Unit	39.53	298,800.00	475
Other Asphalt Surfaces	9.57	Acre	9.57	416,869.20	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 - Lot acreage per site plan.
- Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.
- Grading - Acres graded and import per earthwork volume analysis
- Architectural Coating - VOC per MDAQMD Rules
- Woodstoves - No wood fireplaces
- Area Coating - VOC per MDAQMD Rules
- Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust
- Area Mitigation - No wood burning hearths

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	53.90	39.53
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

TTM 20486 - Adelanto - 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	3.7283	39.7964	29.8959	0.0680	19.8049	1.6478	21.4182	10.1417	1.5164	11.6259	0.0000	6,635.7537	6,635.7537	1.9501	0.3017	6,707.7253
2023	2.5637	17.7706	24.4039	0.0613	2.5138	0.7386	3.2524	0.6800	0.6953	1.3753	0.0000	6,121.6570	6,121.6570	0.6645	0.2892	6,224.4364
2024	2.3939	16.7438	23.7889	0.0604	2.5138	0.6515	3.1653	0.6800	0.6132	1.2932	0.0000	6,037.2815	6,037.2815	0.6557	0.2802	6,137.1604
2025	2.2306	15.6964	23.2273	0.0595	2.5138	0.5652	3.0790	0.6800	0.5320	1.2120	0.0000	5,959.0734	5,959.0734	0.7162	0.2718	6,056.2616
2026	36.4105	8.6026	14.9205	0.0238	0.3861	0.4190	0.5422	0.1024	0.3855	0.4182	0.0000	2,312.2003	2,312.2003	0.7160	7.4900e-003	2,330.8128
Maximum	36.4105	39.7964	29.8959	0.0680	19.8049	1.6478	21.4182	10.1417	1.5164	11.6259	0.0000	6,635.7537	6,635.7537	1.9501	0.3017	6,707.7253

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

2.2 Overall Operational

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	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1808	4.2780	0.3626	6,783.1923
Energy	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Mobile	5.4606	6.5269	45.9933	0.0961	9.4927	0.0798	9.5724	2.5305	0.0749	2.6054		9,939.0856	9,939.0856	0.5108	0.4784	10,094.4118
Total	267.1426	12.8314	373.7799	0.6726	9.4927	44.2200	53.7127	2.5305	44.2152	46.7457	4,610.1073	13,410.6586	18,020.7659	4.8178	0.8688	18,400.0975

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	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188
Energy	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Mobile	5.4606	6.5269	45.9933	0.0961	9.4927	0.0798	9.5724	2.5305	0.0749	2.6054		9,939.0856	9,939.0856	0.5108	0.4784	10,094.4118
Total	13.3871	10.3485	61.2428	0.1202	9.4927	0.4519	9.9445	2.5305	0.4470	2.9775	0.0000	14,641.0115	14,641.0115	0.6241	0.5641	14,824.7241

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	94.99	19.35	83.62	82.12	0.00	98.98	81.49	0.00	98.99	93.63	100.00	-9.17	18.75	87.05	35.06	19.43

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	9/9/2022	5	30	
2	Grading	Grading	9/10/2022	12/23/2022	5	75	
3	Building Construction	Building Construction	12/24/2022	10/24/2025	5	740	
4	Paving	Paving	10/25/2025	1/9/2026	5	55	
5	Architectural Coating	Architectural Coating	1/10/2026	3/27/2026	5	55	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 9.57

Residential Indoor: 605,070; Residential Outdoor: 201,690; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 25,012 (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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

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

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	86.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	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

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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	0.0713	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

TTM 20486 - Adelanto - 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	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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

TTM 20486 - Adelanto - 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0243	0.9087	0.2343	4.4300e-003	0.1348	0.0121	0.1469	0.0370	0.0116	0.0486		468.5895	468.5895	1.2300e-003	0.0737	490.5683
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	0.0792	0.0443	0.6201	1.5300e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		155.7537	155.7537	4.6200e-003	4.2700e-003	157.1412
Total	0.1035	0.9529	0.8544	5.9600e-003	0.2991	0.0129	0.3120	0.0806	0.0123	0.0929		624.3432	624.3432	5.8500e-003	0.0779	647.7095

TTM 20486 - Adelanto - 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.5894	1.6349	5.2243	1.4250	1.5041	2.9291	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0243	0.9087	0.2343	4.4300e-003	0.1144	0.0121	0.1265	0.0320	0.0116	0.0436		468.5895	468.5895	1.2300e-003	0.0737	490.5683
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	0.0792	0.0443	0.6201	1.5300e-003	0.1357	8.3000e-004	0.1366	0.0366	7.6000e-004	0.0373		155.7537	155.7537	4.6200e-003	4.2700e-003	157.1412
Total	0.1035	0.9529	0.8544	5.9600e-003	0.2502	0.0129	0.2631	0.0686	0.0123	0.0809		624.3432	624.3432	5.8500e-003	0.0779	647.7095

TTM 20486 - Adelanto - 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	0.1622	3.5135	1.5973	0.0175	0.5833	0.0491	0.6324	0.1680	0.0470	0.2150		1,839.9530	1,839.9530	9.4400e-003	0.2515	1,915.1411
Worker	0.9309	0.5203	7.2858	0.0180	1.9305	9.7300e-003	1.9402	0.5121	8.9600e-003	0.5210		1,830.1055	1,830.1055	0.0543	0.0502	1,846.4089
Total	1.0931	4.0338	8.8831	0.0355	2.5138	0.0588	2.5726	0.6800	0.0559	0.7360		3,670.0585	3,670.0585	0.0637	0.3017	3,761.5500

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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	0.1622	3.5135	1.5973	0.0175	0.5003	0.0491	0.5494	0.1476	0.0470	0.1946		1,839.9530	1,839.9530	9.4400e-003	0.2515	1,915.1411
Worker	0.9309	0.5203	7.2858	0.0180	1.5949	9.7300e-003	1.6047	0.4297	8.9600e-003	0.4387		1,830.1055	1,830.1055	0.0543	0.0502	1,846.4089
Total	1.0931	4.0338	8.8831	0.0355	2.0952	0.0588	2.1541	0.5773	0.0559	0.6332		3,670.0585	3,670.0585	0.0637	0.3017	3,761.5500

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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	0.1326	2.9273	1.4974	0.0170	0.5833	0.0298	0.6131	0.1680	0.0285	0.1965		1,785.1481	1,785.1481	7.9100e-003	0.2429	1,857.7421
Worker	0.8584	0.4585	6.6625	0.0174	1.9305	9.1400e-003	1.9396	0.5121	8.4100e-003	0.5205		1,781.2990	1,781.2990	0.0487	0.0462	1,796.2883
Total	0.9910	3.3857	8.1599	0.0344	2.5138	0.0389	2.5527	0.6800	0.0369	0.7169		3,566.4471	3,566.4471	0.0566	0.2892	3,654.0304

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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	0.1326	2.9273	1.4974	0.0170	0.5003	0.0298	0.5301	0.1476	0.0285	0.1761		1,785.1481	1,785.1481	7.9100e-003	0.2429	1,857.7421
Worker	0.8584	0.4585	6.6625	0.0174	1.5949	9.1400e-003	1.6041	0.4297	8.4100e-003	0.4381		1,781.2990	1,781.2990	0.0487	0.0462	1,796.2883
Total	0.9910	3.3857	8.1599	0.0344	2.0952	0.0389	2.1341	0.5773	0.0369	0.6142		3,566.4471	3,566.4471	0.0566	0.2892	3,654.0304

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

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

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	0.1279	2.8936	1.4438	0.0166	0.5833	0.0296	0.6129	0.1680	0.0283	0.1963		1,746.2576	1,746.2576	7.5300e-003	0.2374	1,817.1762
Worker	0.7944	0.4064	6.1782	0.0168	1.9305	8.6300e-003	1.9391	0.5121	7.9500e-003	0.5200		1,735.3250	1,735.3250	0.0439	0.0428	1,749.1766
Total	0.9224	3.3001	7.6220	0.0334	2.5138	0.0382	2.5520	0.6800	0.0363	0.7163		3,481.5826	3,481.5826	0.0514	0.2802	3,566.3528

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

3.4 Building Construction - 2024

Mitigated Construction On-Site

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

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	0.1279	2.8936	1.4438	0.0166	0.5003	0.0296	0.5299	0.1476	0.0283	0.1759		1,746.2576	1,746.2576	7.5300e-003	0.2374	1,817.1762
Worker	0.7944	0.4064	6.1782	0.0168	1.5949	8.6300e-003	1.6036	0.4297	7.9500e-003	0.4376		1,735.3250	1,735.3250	0.0439	0.0428	1,749.1766
Total	0.9224	3.3001	7.6220	0.0334	2.0952	0.0382	2.1335	0.5773	0.0363	0.6136		3,481.5826	3,481.5826	0.0514	0.2802	3,566.3528

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

3.4 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1249	2.8634	1.4081	0.0163	0.5833	0.0295	0.6128	0.1680	0.0282	0.1962		1,710.348 6	1,710.348 6	7.2900e-003	0.2319	1,779.640 6
Worker	0.7383	0.3633	5.7346	0.0162	1.9305	8.2000e-003	1.9387	0.5121	7.5500e-003	0.5196		1,692.250 5	1,692.250 5	0.0396	0.0399	1,705.123 0
Total	0.8632	3.2267	7.1427	0.0325	2.5138	0.0377	2.5515	0.6800	0.0357	0.7158		3,402.599 1	3,402.599 1	0.0468	0.2718	3,484.763 6

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

3.4 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1249	2.8634	1.4081	0.0163	0.5003	0.0295	0.5298	0.1476	0.0282	0.1758		1,710.348 6	1,710.348 6	7.2900e- 003	0.2319	1,779.640 6
Worker	0.7383	0.3633	5.7346	0.0162	1.5949	8.2000e- 003	1.6031	0.4297	7.5500e- 003	0.4372		1,692.250 5	1,692.250 5	0.0396	0.0399	1,705.123 0
Total	0.8632	3.2267	7.1427	0.0325	2.0952	0.0377	2.1329	0.5773	0.0357	0.6130		3,402.599 1	3,402.599 1	0.0468	0.2718	3,484.763 6

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

3.5 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0471	0.0232	0.3660	1.0400e-003	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		108.0160	108.0160	2.5200e-003	2.5500e-003	108.8376
Total	0.0471	0.0232	0.3660	1.0400e-003	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		108.0160	108.0160	2.5200e-003	2.5500e-003	108.8376

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3.5 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0471	0.0232	0.3660	1.0400e-003	0.1018	5.2000e-004	0.1023	0.0274	4.8000e-004	0.0279		108.0160	108.0160	2.5200e-003	2.5500e-003	108.8376
Total	0.0471	0.0232	0.3660	1.0400e-003	0.1018	5.2000e-004	0.1023	0.0274	4.8000e-004	0.0279		108.0160	108.0160	2.5200e-003	2.5500e-003	108.8376

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

3.5 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0440	0.0209	0.3425	1.0000e-003	0.1232	5.0000e-004	0.1237	0.0327	4.6000e-004	0.0331		105.4551	105.4551	2.2900e-003	2.3900e-003	106.2250
Total	0.0440	0.0209	0.3425	1.0000e-003	0.1232	5.0000e-004	0.1237	0.0327	4.6000e-004	0.0331		105.4551	105.4551	2.2900e-003	2.3900e-003	106.2250

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

3.5 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0440	0.0209	0.3425	1.0000e-003	0.1018	5.0000e-004	0.1023	0.0274	4.6000e-004	0.0279		105.4551	105.4551	2.2900e-003	2.3900e-003	106.2250
Total	0.0440	0.0209	0.3425	1.0000e-003	0.1018	5.0000e-004	0.1023	0.0274	4.6000e-004	0.0279		105.4551	105.4551	2.2900e-003	2.3900e-003	106.2250

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

3.6 Architectural Coating - 2026

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	36.1018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	36.2726	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1379	0.0656	1.0731	3.1500e-003	0.3861	1.5500e-003	0.3877	0.1024	1.4300e-003	0.1038		330.4260	330.4260	7.1700e-003	7.4900e-003	332.8384
Total	0.1379	0.0656	1.0731	3.1500e-003	0.3861	1.5500e-003	0.3877	0.1024	1.4300e-003	0.1038		330.4260	330.4260	7.1700e-003	7.4900e-003	332.8384

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

3.6 Architectural Coating - 2026

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	36.1018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	36.2726	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1379	0.0656	1.0731	3.1500e-003	0.3190	1.5500e-003	0.3205	0.0859	1.4300e-003	0.0874		330.4260	330.4260	7.1700e-003	7.4900e-003	332.8384
Total	0.1379	0.0656	1.0731	3.1500e-003	0.3190	1.5500e-003	0.3205	0.0859	1.4300e-003	0.0874		330.4260	330.4260	7.1700e-003	7.4900e-003	332.8384

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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	5.4606	6.5269	45.9933	0.0961	9.4927	0.0798	9.5724	2.5305	0.0749	2.6054		9,939.0856	9,939.0856	0.5108	0.4784	10,094.4118
Unmitigated	5.4606	6.5269	45.9933	0.0961	9.4927	0.0798	9.5724	2.5305	0.0749	2.6054		9,939.0856	9,939.0856	0.5108	0.4784	10,094.4118

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,567.04	1,583.64	1419.30	4,397,374	4,397,374
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,567.04	1,583.64	1,419.30	4,397,374	4,397,374

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	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
Other Asphalt Surfaces	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	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
NaturalGas Unmitigated	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12864.7	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Total		0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.8647	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Total		0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

6.0 Area Detail

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

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188
Unmitigated	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1808	4.2780	0.3626	6,783.1923

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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

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	0.5440					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	254.0456	4.9612	313.5917	0.5681		43.9685	43.9685		43.9685	43.9685	4,610.1073	1,933.4118	6,543.5191	4.2544	0.3626	6,757.9389
Landscaping	0.4117	0.1577	13.6904	7.2000e-004		0.0759	0.0759		0.0759	0.0759		24.6618	24.6618	0.0237		25.2534
Total	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1809	4.2780	0.3626	6,783.1923

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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	lb/day										lb/day					
Architectural Coating	0.5440					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2900	2.4783	1.0546	0.0158		0.2004	0.2004		0.2004	0.2004	0.0000	3,163.7647	3,163.7647	0.0606	0.0580	3,182.5654
Landscaping	0.4117	0.1577	13.6904	7.2000e-004		0.0759	0.0759		0.0759	0.0759		24.6618	24.6618	0.0237		25.2534
Total	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188

7.0 Water Detail

7.1 Mitigation Measures Water

TTM 20486 - Adelanto - 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

TTM 20486 - Adelanto - Mojave Desert AQMD Air District, Winter

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

TTM 20486 - Adelanto
Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	166.00	Dwelling Unit	39.53	298,800.00	475
Other Asphalt Surfaces	9.57	Acre	9.57	416,869.20	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 - Lot acreage per site plan.

Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.

Grading - Acres graded and import per earthwork volume analysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rules

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

Area Mitigation - No wood burning hearths

TTM 20486 - Adelanto - Mojave Desert AQMD Air District, Winter

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	53.90	39.53
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

TTM 20486 - Adelanto - 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	3.7188	39.8477	29.7769	0.0679	19.8049	1.6478	21.4182	10.1417	1.5165	11.6259	0.0000	6,618.909 1	6,618.909 1	1.9501	0.3033	6,690.929 0
2023	2.4708	17.9719	23.1203	0.0594	2.5138	0.7387	3.2525	0.6800	0.6954	1.3754	0.0000	5,928.094 2	5,928.094 2	0.6651	0.2910	6,031.441 4
2024	2.3090	16.9412	22.6134	0.0586	2.5138	0.6516	3.1654	0.6800	0.6132	1.2933	0.0000	5,849.270 0	5,849.270 0	0.6564	0.2819	5,949.687 3
2025	2.1522	15.8906	22.1496	0.0577	2.5138	0.5653	3.0791	0.6800	0.5321	1.2121	0.0000	5,776.199 0	5,776.199 0	0.7163	0.2735	5,873.900 2
2026	36.3977	8.6031	14.8534	0.0237	0.3861	0.4190	0.5422	0.1024	0.3855	0.4182	0.0000	2,300.519 9	2,300.519 9	0.7161	7.6100e- 003	2,319.145 7
Maximum	36.3977	39.8477	29.7769	0.0679	19.8049	1.6478	21.4182	10.1417	1.5165	11.6259	0.0000	6,618.909 1	6,618.909 1	1.9501	0.3033	6,690.929 0

TTM 20486 - Adelanto - 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	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1808	4.2780	0.3626	6,783.1923
Energy	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Mobile	4.4903	6.9199	40.3460	0.0880	9.4927	0.0798	9.5725	2.5305	0.0750	2.6055		9,101.6776	9,101.6776	0.5260	0.4880	9,260.2516
Total	266.1723	13.2244	368.1325	0.6644	9.4927	44.2201	53.7128	2.5305	44.2153	46.7457	4,610.1073	12,573.2506	17,183.3579	4.8331	0.8784	17,565.9373

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	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188
Energy	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Mobile	4.4903	6.9199	40.3460	0.0880	9.4927	0.0798	9.5725	2.5305	0.0750	2.6055		9,101.6776	9,101.6776	0.5260	0.4880	9,260.2516
Total	12.4167	10.7415	55.5955	0.1121	9.4927	0.4519	9.9446	2.5305	0.4471	2.9776	0.0000	13,803.6035	13,803.6035	0.6393	0.5738	13,990.5638

TTM 20486 - Adelanto - 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	95.34	18.78	84.90	83.13	0.00	98.98	81.49	0.00	98.99	93.63	100.00	-9.79	19.67	86.77	34.68	20.35

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	9/9/2022	5	30	
2	Grading	Grading	9/10/2022	12/23/2022	5	75	
3	Building Construction	Building Construction	12/24/2022	10/24/2025	5	740	
4	Paving	Paving	10/25/2025	1/9/2026	5	55	
5	Architectural Coating	Architectural Coating	1/10/2026	3/27/2026	5	55	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 9.57

Residential Indoor: 605,070; Residential Outdoor: 201,690; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 25,012 (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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

TTM 20486 - Adelanto - 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	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	86.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	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

TTM 20486 - Adelanto - 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

TTM 20486 - Adelanto - 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

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0227	0.9587	0.2412	4.4300e-003	0.1348	0.0121	0.1469	0.0370	0.0116	0.0486		469.1580	469.1580	1.1600e-003	0.0737	491.1617
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	0.0455	0.4942	1.3600e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		138.3405	138.3405	4.6900e-003	4.3400e-003	139.7515
Total	0.0940	1.0043	0.7354	5.7900e-003	0.2991	0.0130	0.3120	0.0806	0.0124	0.0929		607.4985	607.4985	5.8500e-003	0.0781	630.9132

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.5894	1.6349	5.2243	1.4250	1.5041	2.9291	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0227	0.9587	0.2412	4.4300e-003	0.1144	0.0121	0.1266	0.0320	0.0116	0.0436		469.1580	469.1580	1.1600e-003	0.0737	491.1617
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	0.0455	0.4942	1.3600e-003	0.1357	8.3000e-004	0.1366	0.0366	7.6000e-004	0.0373		138.3405	138.3405	4.6900e-003	4.3400e-003	139.7515
Total	0.0940	1.0043	0.7354	5.7900e-003	0.2502	0.0130	0.2631	0.0686	0.0124	0.0809		607.4985	607.4985	5.8500e-003	0.0781	630.9132

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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	0.1546	3.7155	1.6573	0.0175	0.5833	0.0492	0.6325	0.1680	0.0471	0.2151		1,842.9266	1,842.9266	9.1000e-003	0.2523	1,918.3438
Worker	0.8377	0.5352	5.8070	0.0160	1.9305	9.7300e-003	1.9402	0.5121	8.9600e-003	0.5210		1,625.5014	1,625.5014	0.0551	0.0510	1,642.0797
Total	0.9923	4.2507	7.4643	0.0335	2.5138	0.0590	2.5727	0.6800	0.0560	0.7361		3,468.4280	3,468.4280	0.0642	0.3033	3,560.4235

TTM 20486 - Adelanto - 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	0.1546	3.7155	1.6573	0.0175	0.5003	0.0492	0.5495	0.1476	0.0471	0.1947		1,842.9266	1,842.9266	9.1000e-003	0.2523	1,918.3438
Worker	0.8377	0.5352	5.8070	0.0160	1.5949	9.7300e-003	1.6047	0.4297	8.9600e-003	0.4387		1,625.5014	1,625.5014	0.0551	0.0510	1,642.0797
Total	0.9923	4.2507	7.4643	0.0335	2.0952	0.0590	2.1542	0.5773	0.0560	0.6334		3,468.4280	3,468.4280	0.0642	0.3033	3,560.4235

TTM 20486 - Adelanto - 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	0.1239	3.1156	1.5494	0.0170	0.5833	0.0299	0.6132	0.1680	0.0286	0.1965		1,790.1613	1,790.1613	7.5300e-003	0.2440	1,863.0679
Worker	0.7741	0.4714	5.3269	0.0155	1.9305	9.1400e-003	1.9396	0.5121	8.4100e-003	0.5205		1,582.7230	1,582.7230	0.0497	0.0470	1,597.9675
Total	0.8981	3.5870	6.8763	0.0325	2.5138	0.0390	2.5528	0.6800	0.0370	0.7170		3,372.8843	3,372.8843	0.0572	0.2910	3,461.0353

TTM 20486 - Adelanto - 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	0.1239	3.1156	1.5494	0.0170	0.5003	0.0299	0.5302	0.1476	0.0286	0.1762		1,790.1613	1,790.1613	7.5300e-003	0.2440	1,863.0679
Worker	0.7741	0.4714	5.3269	0.0155	1.5949	9.1400e-003	1.6041	0.4297	8.4100e-003	0.4381		1,582.7230	1,582.7230	0.0497	0.0470	1,597.9675
Total	0.8981	3.5870	6.8763	0.0325	2.0952	0.0390	2.1342	0.5773	0.0370	0.6143		3,372.8843	3,372.8843	0.0572	0.2910	3,461.0353

TTM 20486 - Adelanto - 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 - 2024

Unmitigated Construction On-Site

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

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	0.1193	3.0797	1.4962	0.0167	0.5833	0.0297	0.6130	0.1680	0.0284	0.1964		1,751.2141	1,751.2141	7.1600e-003	0.2384	1,822.4334
Worker	0.7181	0.4177	4.9504	0.0150	1.9305	8.6300e-003	1.9391	0.5121	7.9500e-003	0.5200		1,542.3570	1,542.3570	0.0449	0.0435	1,556.4462
Total	0.8374	3.4974	6.4466	0.0316	2.5138	0.0383	2.5521	0.6800	0.0363	0.7164		3,293.5711	3,293.5711	0.0521	0.2819	3,378.8796

TTM 20486 - Adelanto - 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 - 2024

Mitigated Construction On-Site

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

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	0.1193	3.0797	1.4962	0.0167	0.5003	0.0297	0.5300	0.1476	0.0284	0.1760		1,751.2141	1,751.2141	7.1600e-003	0.2384	1,822.4334
Worker	0.7181	0.4177	4.9504	0.0150	1.5949	8.6300e-003	1.6036	0.4297	7.9500e-003	0.4376		1,542.3570	1,542.3570	0.0449	0.0435	1,556.4462
Total	0.8374	3.4974	6.4466	0.0316	2.0952	0.0383	2.1335	0.5773	0.0363	0.6136		3,293.5711	3,293.5711	0.0521	0.2819	3,378.8796

TTM 20486 - Adelanto - 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 - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1163	3.0476	1.4604	0.0163	0.5833	0.0296	0.6129	0.1680	0.0283	0.1963		1,715.233 7	1,715.233 7	6.9300e-003	0.2329	1,784.816 7
Worker	0.6685	0.3733	4.6046	0.0144	1.9305	8.2000e-003	1.9387	0.5121	7.5500e-003	0.5196		1,504.491 0	1,504.491 0	0.0406	0.0405	1,517.585 4
Total	0.7848	3.4209	6.0650	0.0308	2.5138	0.0378	2.5515	0.6800	0.0358	0.7159		3,219.724 7	3,219.724 7	0.0476	0.2735	3,302.402 1

TTM 20486 - Adelanto - 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 - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1163	3.0476	1.4604	0.0163	0.5003	0.0296	0.5299	0.1476	0.0283	0.1759		1,715.233 7	1,715.233 7	6.9300e-003	0.2329	1,784.816 7
Worker	0.6685	0.3733	4.6046	0.0144	1.5949	8.2000e-003	1.6031	0.4297	7.5500e-003	0.4372		1,504.491 0	1,504.491 0	0.0406	0.0405	1,517.585 4
Total	0.7848	3.4209	6.0650	0.0308	2.0952	0.0378	2.1330	0.5773	0.0358	0.6131		3,219.724 7	3,219.724 7	0.0476	0.2735	3,302.402 1

TTM 20486 - Adelanto - 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 - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0427	0.0238	0.2939	9.2000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		96.0313	96.0313	2.5900e-003	2.5900e-003	96.8672
Total	0.0427	0.0238	0.2939	9.2000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		96.0313	96.0313	2.5900e-003	2.5900e-003	96.8672

TTM 20486 - Adelanto - 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 - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0427	0.0238	0.2939	9.2000e-004	0.1018	5.2000e-004	0.1023	0.0274	4.8000e-004	0.0279		96.0313	96.0313	2.5900e-003	2.5900e-003	96.8672
Total	0.0427	0.0238	0.2939	9.2000e-004	0.1018	5.2000e-004	0.1023	0.0274	4.8000e-004	0.0279		96.0313	96.0313	2.5900e-003	2.5900e-003	96.8672

TTM 20486 - Adelanto - 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 - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0399	0.0215	0.2754	8.9000e-004	0.1232	5.0000e-004	0.1237	0.0327	4.6000e-004	0.0331		93.7748	93.7748	2.3600e-003	2.4300e-003	94.5579
Total	0.0399	0.0215	0.2754	8.9000e-004	0.1232	5.0000e-004	0.1237	0.0327	4.6000e-004	0.0331		93.7748	93.7748	2.3600e-003	2.4300e-003	94.5579

TTM 20486 - Adelanto - 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 - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3710	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0399	0.0215	0.2754	8.9000e-004	0.1018	5.0000e-004	0.1023	0.0274	4.6000e-004	0.0279		93.7748	93.7748	2.3600e-003	2.4300e-003	94.5579
Total	0.0399	0.0215	0.2754	8.9000e-004	0.1018	5.0000e-004	0.1023	0.0274	4.6000e-004	0.0279		93.7748	93.7748	2.3600e-003	2.4300e-003	94.5579

TTM 20486 - Adelanto - 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 - 2026

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	36.1018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	36.2726	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1251	0.0674	0.8630	2.8000e-003	0.3861	1.5500e-003	0.3877	0.1024	1.4300e-003	0.1038		293.8276	293.8276	7.3900e-003	7.6100e-003	296.2815
Total	0.1251	0.0674	0.8630	2.8000e-003	0.3861	1.5500e-003	0.3877	0.1024	1.4300e-003	0.1038		293.8276	293.8276	7.3900e-003	7.6100e-003	296.2815

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

3.6 Architectural Coating - 2026

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	36.1018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	36.2726	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1251	0.0674	0.8630	2.8000e-003	0.3190	1.5500e-003	0.3205	0.0859	1.4300e-003	0.0874		293.8276	293.8276	7.3900e-003	7.6100e-003	296.2815
Total	0.1251	0.0674	0.8630	2.8000e-003	0.3190	1.5500e-003	0.3205	0.0859	1.4300e-003	0.0874		293.8276	293.8276	7.3900e-003	7.6100e-003	296.2815

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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	4.4903	6.9199	40.3460	0.0880	9.4927	0.0798	9.5725	2.5305	0.0750	2.6055		9,101.6776	9,101.6776	0.5260	0.4880	9,260.2516
Unmitigated	4.4903	6.9199	40.3460	0.0880	9.4927	0.0798	9.5725	2.5305	0.0750	2.6055		9,101.6776	9,101.6776	0.5260	0.4880	9,260.2516

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,567.04	1,583.64	1419.30	4,397,374	4,397,374
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,567.04	1,583.64	1,419.30	4,397,374	4,397,374

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	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
Other Asphalt Surfaces	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	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
NaturalGas Unmitigated	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12864.7	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Total		0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	12.8647	0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934
Total		0.1387	1.1856	0.5045	7.5700e-003		0.0959	0.0959		0.0959	0.0959		1,513.4995	1,513.4995	0.0290	0.0278	1,522.4934

6.0 Area Detail

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

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188
Unmitigated	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1808	4.2780	0.3626	6,783.1923

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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

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	0.5440					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	254.0456	4.9612	313.5917	0.5681		43.9685	43.9685		43.9685	43.9685	4,610.1073	1,933.4118	6,543.5191	4.2544	0.3626	6,757.9389
Landscaping	0.4117	0.1577	13.6904	7.2000e-004		0.0759	0.0759		0.0759	0.0759		24.6618	24.6618	0.0237		25.2534
Total	261.5432	5.1190	327.2821	0.5689		44.0444	44.0444		44.0444	44.0444	4,610.1073	1,958.0735	6,568.1809	4.2780	0.3626	6,783.1923

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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	lb/day										lb/day					
Architectural Coating	0.5440					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2900	2.4783	1.0546	0.0158		0.2004	0.2004		0.2004	0.2004	0.0000	3,163.7647	3,163.7647	0.0606	0.0580	3,182.5654
Landscaping	0.4117	0.1577	13.6904	7.2000e-004		0.0759	0.0759		0.0759	0.0759		24.6618	24.6618	0.0237		25.2534
Total	7.7877	2.6360	14.7450	0.0165		0.2763	0.2763		0.2763	0.2763	0.0000	3,188.4265	3,188.4265	0.0843	0.0580	3,207.8188

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	166.00	Dwelling Unit	39.53	298,800.00	475
Other Asphalt Surfaces	9.57	Acre	9.57	416,869.20	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 - Lot acreage per site plan.

Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.

Grading - Acres graded and import per earthwork volume analysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rules

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

Area Mitigation - No wood burning hearths

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	20
tblLandUse	LotAcreage	53.90	39.53
tblTripsAndVMT	HaulingTripNumber	0.00	576.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.1944	2.0412	1.4810	3.2900e-003	0.6594	0.0882	0.7475	0.2938	0.0812	0.3750	0.0000	290.9544	290.9544	0.0842	3.4100e-003	294.0744
2023	0.3146	2.3371	3.0522	7.7800e-003	0.3212	0.0960	0.4172	0.0870	0.0904	0.1774	0.0000	704.0433	704.0433	0.0786	0.0345	716.2941
2024	0.2962	2.2195	3.0057	7.7200e-003	0.3237	0.0854	0.4090	0.0877	0.0803	0.1680	0.0000	699.9446	699.9446	0.0782	0.0337	711.9350
2025	0.2583	1.8987	2.7489	6.7600e-003	0.2660	0.0703	0.3363	0.0721	0.0659	0.1380	0.0000	612.0653	612.0653	0.0784	0.0266	621.9540
2026	1.0056	0.0636	0.1272	2.4000e-004	0.0109	2.9300e-003	0.0138	2.8800e-003	2.8000e-003	5.6900e-003	0.0000	21.8696	21.8696	2.8500e-003	2.1000e-004	22.0021
Maximum	1.0056	2.3371	3.0522	7.7800e-003	0.6594	0.0960	0.7475	0.2938	0.0904	0.3750	0.0000	704.0433	704.0433	0.0842	0.0345	716.2941

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

2.1 Overall Construction

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	0.1944	2.0412	1.4810	3.2900e-003	0.2658	0.0882	0.3539	0.1170	0.0812	0.1982	0.0000	290.9541	290.9541	0.0842	3.4100e-003	294.0741
2023	0.3146	2.3371	3.0522	7.7800e-003	0.2679	0.0960	0.3639	0.0740	0.0904	0.1644	0.0000	704.0430	704.0430	0.0786	0.0345	716.2938
2024	0.2962	2.2195	3.0057	7.7200e-003	0.2700	0.0854	0.3553	0.0745	0.0803	0.1549	0.0000	699.9442	699.9442	0.0782	0.0337	711.9347
2025	0.2583	1.8987	2.7489	6.7600e-003	0.2219	0.0703	0.2921	0.0612	0.0659	0.1271	0.0000	612.0650	612.0650	0.0784	0.0266	621.9536
2026	1.0056	0.0636	0.1272	2.4000e-004	8.9700e-003	2.9300e-003	0.0119	2.4200e-003	2.8000e-003	5.2300e-003	0.0000	21.8696	21.8696	2.8500e-003	2.1000e-004	22.0021
Maximum	1.0056	2.3371	3.0522	7.7800e-003	0.2700	0.0960	0.3639	0.1170	0.0904	0.1982	0.0000	704.0430	704.0430	0.0842	0.0345	716.2938

	ROG	NOx	CO	SO2	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	34.57	0.00	28.41	39.44	0.00	24.81	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	1.3283	1.3283
2	11-1-2022	1-31-2023	1.1155	1.1155
3	2-1-2023	4-30-2023	0.6486	0.6486
4	5-1-2023	7-31-2023	0.6681	0.6681
5	8-1-2023	10-31-2023	0.6693	0.6693
6	11-1-2023	1-31-2024	0.6585	0.6585
7	2-1-2024	4-30-2024	0.6176	0.6176

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8	5-1-2024	7-31-2024	0.6288	0.6288
9	8-1-2024	10-31-2024	0.6301	0.6301
10	11-1-2024	1-31-2025	0.6191	0.6191
11	2-1-2025	4-30-2025	0.5723	0.5723
12	5-1-2025	7-31-2025	0.5890	0.5890
13	8-1-2025	10-31-2025	0.5703	0.5703
14	11-1-2025	1-31-2026	0.5460	0.5460
15	2-1-2026	4-30-2026	0.7388	0.7388
		Highest	1.3283	1.3283

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	11.7461	0.2176	14.0894	0.0234		1.8095	1.8095		1.8095	1.8095	171.4710	73.9260	245.3970	0.1602	0.0135	253.4205
Energy	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	485.0513	485.0513	0.0246	6.9900e-003	487.7500
Mobile	0.7924	1.2582	7.6078	0.0160	1.6593	0.0142	1.6734	0.4429	0.0133	0.4563	0.0000	1,497.8286	1,497.8286	0.0867	0.0802	1,523.8963
Waste						0.0000	0.0000		0.0000	0.0000	39.5325	0.0000	39.5325	2.3363	0.0000	97.9401
Water						0.0000	0.0000		0.0000	0.0000	3.4313	38.4101	41.8413	0.3557	8.7100e-003	53.3299
Total	12.5639	1.6922	21.7893	0.0407	1.6593	1.8412	3.5005	0.4429	1.8404	2.2833	214.4348	2,095.2159	2,309.6507	2.9634	0.1094	2,416.3368

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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	1.3421	0.1158	1.2754	7.1000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	119.6884	119.6884	4.1900e-003	2.1600e-003	120.4360
Energy	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	485.0513	485.0513	0.0246	6.9900e-003	487.7500
Mobile	0.7924	1.2582	7.6078	0.0160	1.6593	0.0142	1.6734	0.4429	0.0133	0.4563	0.0000	1,497.8286	1,497.8286	0.0867	0.0802	1,523.8963
Waste						0.0000	0.0000		0.0000	0.0000	39.5325	0.0000	39.5325	2.3363	0.0000	97.9401
Water						0.0000	0.0000		0.0000	0.0000	3.4313	38.4101	41.8413	0.3557	8.7100e-003	53.3299
Total	2.1599	1.5904	8.9753	0.0181	1.6593	0.0467	1.7060	0.4429	0.0459	0.4888	42.9638	2,140.9784	2,183.9421	2.8075	0.0981	2,283.3523

	ROG	NOx	CO	SO2	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	82.81	6.02	58.81	55.64	0.00	97.46	51.26	0.00	97.51	78.59	79.96	-2.18	5.44	5.26	10.36	5.50

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	9/9/2022	5	30	
2	Grading	Grading	9/10/2022	12/23/2022	5	75	
3	Building Construction	Building Construction	12/24/2022	10/24/2025	5	740	

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4	Paving	Paving	10/25/2025	1/9/2026	5	55
5	Architectural Coating	Architectural Coating	1/10/2026	3/27/2026	5	55

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 9.57

Residential Indoor: 605,070; Residential Outdoor: 201,690; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 25,012 (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
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	8	20.00	0.00	576.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	86.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	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 - 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					0.2949	0.0000	0.2949	0.1515	0.0000	0.1515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0476	0.4963	0.2955	5.7000e-004		0.0242	0.0242		0.0223	0.0223	0.0000	50.1591	50.1591	0.0162	0.0000	50.5647
Total	0.0476	0.4963	0.2955	5.7000e-004	0.2949	0.0242	0.3191	0.1515	0.0223	0.1738	0.0000	50.1591	50.1591	0.0162	0.0000	50.5647

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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	9.0000e-004	6.5000e-004	7.1500e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7422	1.7422	6.0000e-005	6.0000e-005	1.7602
Total	9.0000e-004	6.5000e-004	7.1500e-003	2.0000e-005	2.1800e-003	1.0000e-005	2.1900e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.7422	1.7422	6.0000e-005	6.0000e-005	1.7602

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					0.1150	0.0000	0.1150	0.0591	0.0000	0.0591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0476	0.4963	0.2955	5.7000e-004		0.0242	0.0242		0.0223	0.0223	0.0000	50.1590	50.1590	0.0162	0.0000	50.5646
Total	0.0476	0.4963	0.2955	5.7000e-004	0.1150	0.0242	0.1392	0.0591	0.0223	0.0814	0.0000	50.1590	50.1590	0.0162	0.0000	50.5646

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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	9.0000e-004	6.5000e-004	7.1500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7422	1.7422	6.0000e-005	6.0000e-005	1.7602
Total	9.0000e-004	6.5000e-004	7.1500e-003	2.0000e-005	1.8000e-003	1.0000e-005	1.8100e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7422	1.7422	6.0000e-005	6.0000e-005	1.7602

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					0.3451	0.0000	0.3451	0.1370	0.0000	0.1370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1359	1.4566	1.0891	2.3300e-003		0.0613	0.0613		0.0564	0.0564	0.0000	204.5048	204.5048	0.0661	0.0000	206.1583
Total	0.1359	1.4566	1.0891	2.3300e-003	0.3451	0.0613	0.4064	0.1370	0.0564	0.1934	0.0000	204.5048	204.5048	0.0661	0.0000	206.1583

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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	2.4900e-003	1.8200e-003	0.0199	5.0000e-005	6.0500e-003	3.0000e-005	6.0800e-003	1.6100e-003	3.0000e-005	1.6400e-003	0.0000	4.8394	4.8394	1.6000e-004	1.5000e-004	4.8894
Total	3.3800e-003	0.0379	0.0288	2.2000e-004	0.0110	4.8000e-004	0.0115	2.9800e-003	4.6000e-004	3.4400e-003	0.0000	20.7886	20.7886	2.0000e-004	2.6600e-003	21.5867

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					0.1346	0.0000	0.1346	0.0534	0.0000	0.0534	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1359	1.4566	1.0891	2.3300e-003		0.0613	0.0613		0.0564	0.0564	0.0000	204.5045	204.5045	0.0661	0.0000	206.1580
Total	0.1359	1.4566	1.0891	2.3300e-003	0.1346	0.0613	0.1959	0.0534	0.0564	0.1098	0.0000	204.5045	204.5045	0.0661	0.0000	206.1580

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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	2.4900e-003	1.8200e-003	0.0199	5.0000e-005	5.0000e-003	3.0000e-005	5.0300e-003	1.3500e-003	3.0000e-005	1.3800e-003	0.0000	4.8394	4.8394	1.6000e-004	1.5000e-004	4.8894
Total	3.3800e-003	0.0379	0.0288	2.2000e-004	9.2300e-003	4.8000e-004	9.7100e-003	2.5300e-003	4.6000e-004	3.0000e-003	0.0000	20.7886	20.7886	2.0000e-004	2.6600e-003	21.5867

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	4.2700e-003	0.0390	0.0409	7.0000e-005		2.0200e-003	2.0200e-003		1.9000e-003	1.9000e-003	0.0000	5.7931	5.7931	1.3900e-003	0.0000	5.8278
Total	4.2700e-003	0.0390	0.0409	7.0000e-005		2.0200e-003	2.0200e-003		1.9000e-003	1.9000e-003	0.0000	5.7931	5.7931	1.3900e-003	0.0000	5.8278

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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	3.9000e-004	9.2700e-003	4.0700e-003	4.0000e-005	1.4400e-003	1.2000e-004	1.5600e-003	4.1000e-004	1.2000e-004	5.3000e-004	0.0000	4.1758	4.1758	2.0000e-005	5.7000e-004	4.3467
Worker	1.9500e-003	1.4200e-003	0.0156	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7908	3.7908	1.3000e-004	1.2000e-004	3.8300
Total	2.3400e-003	0.0107	0.0196	8.0000e-005	6.1800e-003	1.4000e-004	6.3200e-003	1.6700e-003	1.4000e-004	1.8100e-003	0.0000	7.9666	7.9666	1.5000e-004	6.9000e-004	8.1768

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	4.2700e-003	0.0390	0.0409	7.0000e-005		2.0200e-003	2.0200e-003		1.9000e-003	1.9000e-003	0.0000	5.7931	5.7931	1.3900e-003	0.0000	5.8278
Total	4.2700e-003	0.0390	0.0409	7.0000e-005		2.0200e-003	2.0200e-003		1.9000e-003	1.9000e-003	0.0000	5.7931	5.7931	1.3900e-003	0.0000	5.8278

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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	3.9000e-004	9.2700e-003	4.0700e-003	4.0000e-005	1.2300e-003	1.2000e-004	1.3600e-003	3.6000e-004	1.2000e-004	4.8000e-004	0.0000	4.1758	4.1758	2.0000e-005	5.7000e-004	4.3467
Worker	1.9500e-003	1.4200e-003	0.0156	4.0000e-005	3.9200e-003	2.0000e-005	3.9400e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.7908	3.7908	1.3000e-004	1.2000e-004	3.8300
Total	2.3400e-003	0.0107	0.0196	8.0000e-005	5.1500e-003	1.4000e-004	5.3000e-003	1.4200e-003	1.4000e-004	1.5600e-003	0.0000	7.9666	7.9666	1.5000e-004	6.9000e-004	8.1768

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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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	0.0165	0.4018	0.1982	2.2100e-003	0.0747	3.8700e-003	0.0786	0.0216	3.7000e-003	0.0253	0.0000	210.7791	210.7791	9.2000e-004	0.0287	219.3652
Worker	0.0936	0.0652	0.7423	2.0700e-003	0.2465	1.1900e-003	0.2477	0.0655	1.0900e-003	0.0666	0.0000	191.9181	191.9181	6.0100e-003	5.7800e-003	193.7906
Total	0.1101	0.4671	0.9405	4.2800e-003	0.3212	5.0600e-003	0.3263	0.0870	4.7900e-003	0.0918	0.0000	402.6971	402.6971	6.9300e-003	0.0345	413.1558

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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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	0.0165	0.4018	0.1982	2.2100e-003	0.0642	3.8700e-003	0.0680	0.0190	3.7000e-003	0.0227	0.0000	210.7791	210.7791	9.2000e-004	0.0287	219.3652
Worker	0.0936	0.0652	0.7423	2.0700e-003	0.2038	1.1900e-003	0.2049	0.0550	1.0900e-003	0.0561	0.0000	191.9181	191.9181	6.0100e-003	5.7800e-003	193.7906
Total	0.1101	0.4671	0.9405	4.2800e-003	0.2679	5.0600e-003	0.2730	0.0740	4.7900e-003	0.0788	0.0000	402.6971	402.6971	6.9300e-003	0.0345	413.1558

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0161	0.4001	0.1928	2.1800e-003	0.0753	3.8800e-003	0.0792	0.0217	3.7100e-003	0.0254	0.0000	207.7759	207.7759	8.8000e-004	0.0283	216.2274
Worker	0.0874	0.0582	0.6951	2.0100e-003	0.2484	1.1300e-003	0.2495	0.0660	1.0400e-003	0.0670	0.0000	188.4464	188.4464	5.4700e-003	5.3900e-003	190.1898
Total	0.1034	0.4583	0.8878	4.1900e-003	0.3237	5.0100e-003	0.3287	0.0877	4.7500e-003	0.0925	0.0000	396.2223	396.2223	6.3500e-003	0.0337	406.4172

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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0161	0.4001	0.1928	2.1800e-003	0.0647	3.8800e-003	0.0685	0.0191	3.7100e-003	0.0228	0.0000	207.7759	207.7759	8.8000e-004	0.0283	216.2274
Worker	0.0874	0.0582	0.6951	2.0100e-003	0.2053	1.1300e-003	0.2065	0.0554	1.0400e-003	0.0564	0.0000	188.4464	188.4464	5.4700e-003	5.3900e-003	190.1898
Total	0.1034	0.4583	0.8878	4.1900e-003	0.2700	5.0100e-003	0.2750	0.0745	4.7500e-003	0.0793	0.0000	396.2223	396.2223	6.3500e-003	0.0337	406.4172

3.4 Building Construction - 2025

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	0.1456	1.3280	1.7130	2.8700e-003		0.0562	0.0562		0.0529	0.0529	0.0000	246.9942	246.9942	0.0581	0.0000	248.4457
Total	0.1456	1.3280	1.7130	2.8700e-003		0.0562	0.0562		0.0529	0.0529	0.0000	246.9942	246.9942	0.0581	0.0000	248.4457

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3.4 Building Construction - 2025

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	0.0128	0.3218	0.1529	1.7300e-003	0.0612	3.1400e-003	0.0644	0.0177	3.0100e-003	0.0207	0.0000	165.4448	165.4448	6.9000e-004	0.0225	172.1576
Worker	0.0660	0.0423	0.5255	1.5800e-003	0.2019	8.7000e-004	0.2028	0.0536	8.0000e-004	0.0544	0.0000	149.4307	149.4307	4.0300e-003	4.0800e-003	150.7476
Total	0.0788	0.3641	0.6784	3.3100e-003	0.2631	4.0100e-003	0.2672	0.0713	3.8100e-003	0.0751	0.0000	314.8755	314.8755	4.7200e-003	0.0266	322.9052

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	0.1456	1.3280	1.7130	2.8700e-003		0.0562	0.0562		0.0529	0.0529	0.0000	246.9939	246.9939	0.0581	0.0000	248.4454
Total	0.1456	1.3280	1.7130	2.8700e-003		0.0562	0.0562		0.0529	0.0529	0.0000	246.9939	246.9939	0.0581	0.0000	248.4454

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3.4 Building Construction - 2025

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	0.0128	0.3218	0.1529	1.7300e-003	0.0526	3.1400e-003	0.0557	0.0155	3.0100e-003	0.0186	0.0000	165.4448	165.4448	6.9000e-004	0.0225	172.1576
Worker	0.0660	0.0423	0.5255	1.5800e-003	0.1669	8.7000e-004	0.1678	0.0450	8.0000e-004	0.0458	0.0000	149.4307	149.4307	4.0300e-003	4.0800e-003	150.7476
Total	0.0788	0.3641	0.6784	3.3100e-003	0.2195	4.0100e-003	0.2235	0.0606	3.8100e-003	0.0644	0.0000	314.8755	314.8755	4.7200e-003	0.0266	322.9052

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2060	0.3499	5.5000e-004		0.0100	0.0100		9.2400e-003	9.2400e-003	0.0000	48.0462	48.0462	0.0155	0.0000	48.4347
Paving	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0329	0.2060	0.3499	5.5000e-004		0.0100	0.0100		9.2400e-003	9.2400e-003	0.0000	48.0462	48.0462	0.0155	0.0000	48.4347

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

3.5 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.1000e-004	7.5600e-003	2.0000e-005	2.9000e-003	1.0000e-005	2.9200e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.1494	2.1494	6.0000e-005	6.0000e-005	2.1684
Total	9.5000e-004	6.1000e-004	7.5600e-003	2.0000e-005	2.9000e-003	1.0000e-005	2.9200e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.1494	2.1494	6.0000e-005	6.0000e-005	2.1684

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	0.0220	0.2060	0.3499	5.5000e-004		0.0100	0.0100		9.2400e-003	9.2400e-003	0.0000	48.0462	48.0462	0.0155	0.0000	48.4346
Paving	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0329	0.2060	0.3499	5.5000e-004		0.0100	0.0100		9.2400e-003	9.2400e-003	0.0000	48.0462	48.0462	0.0155	0.0000	48.4346

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3.5 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.1000e-004	7.5600e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.1494	2.1494	6.0000e-005	6.0000e-005	2.1684
Total	9.5000e-004	6.1000e-004	7.5600e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.1494	2.1494	6.0000e-005	6.0000e-005	2.1684

3.5 Paving - 2026

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	3.2000e-003	0.0300	0.0510	8.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	7.0067	7.0067	2.2700e-003	0.0000	7.0634
Paving	1.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8000e-003	0.0300	0.0510	8.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	7.0067	7.0067	2.2700e-003	0.0000	7.0634

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3.5 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	1.0300e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3061	0.3061	1.0000e-005	1.0000e-005	0.3087
Total	1.3000e-004	8.0000e-005	1.0300e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3061	0.3061	1.0000e-005	1.0000e-005	0.3087

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	3.2000e-003	0.0300	0.0510	8.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	7.0067	7.0067	2.2700e-003	0.0000	7.0634
Paving	1.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8000e-003	0.0300	0.0510	8.0000e-005		1.4600e-003	1.4600e-003		1.3500e-003	1.3500e-003	0.0000	7.0067	7.0067	2.2700e-003	0.0000	7.0634

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3.5 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	8.0000e-005	1.0300e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3061	0.3061	1.0000e-005	1.0000e-005	0.3087
Total	1.3000e-004	8.0000e-005	1.0300e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3061	0.3061	1.0000e-005	1.0000e-005	0.3087

3.6 Architectural Coating - 2026

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	0.9928					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310
Total	0.9975	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0215	7.0215	3.8000e-004	0.0000	7.0310

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3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1900e-003	1.9700e-003	0.0254	8.0000e-005	0.0104	4.0000e-005	0.0105	2.7700e-003	4.0000e-005	2.8100e-003	0.0000	7.5353	7.5353	1.9000e-004	2.0000e-004	7.5990
Total	3.1900e-003	1.9700e-003	0.0254	8.0000e-005	0.0104	4.0000e-005	0.0105	2.7700e-003	4.0000e-005	2.8100e-003	0.0000	7.5353	7.5353	1.9000e-004	2.0000e-004	7.5990

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	0.9928					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310
Total	0.9975	0.0315	0.0498	8.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	7.0214	7.0214	3.8000e-004	0.0000	7.0310

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3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1900e-003	1.9700e-003	0.0254	8.0000e-005	8.6200e-003	4.0000e-005	8.6600e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	7.5353	7.5353	1.9000e-004	2.0000e-004	7.5990
Total	3.1900e-003	1.9700e-003	0.0254	8.0000e-005	8.6200e-003	4.0000e-005	8.6600e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	7.5353	7.5353	1.9000e-004	2.0000e-004	7.5990

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	0.7924	1.2582	7.6078	0.0160	1.6593	0.0142	1.6734	0.4429	0.0133	0.4563	0.0000	1,497.8286	1,497.8286	0.0867	0.0802	1,523.8963
Unmitigated	0.7924	1.2582	7.6078	0.0160	1.6593	0.0142	1.6734	0.4429	0.0133	0.4563	0.0000	1,497.8286	1,497.8286	0.0867	0.0802	1,523.8963

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,567.04	1,583.64	1419.30	4,397,374	4,397,374
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,567.04	1,583.64	1,419.30	4,397,374	4,397,374

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	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
Other Asphalt Surfaces	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

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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	234.4745	234.4745	0.0198	2.4000e-003	235.6841
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	234.4745	234.4745	0.0198	2.4000e-003	235.6841
Natural Gas Mitigated	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659
Natural Gas Unmitigated	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.69563e+006	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659
Total		0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.69563e+006	0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659
Total		0.0253	0.2164	0.0921	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	250.5768	250.5768	4.8000e-003	4.5900e-003	252.0659

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.32213e+006	234.4745	0.0198	2.4000e-003	235.6841
Total		234.4745	0.0198	2.4000e-003	235.6841

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.32213e+006	234.4745	0.0198	2.4000e-003	235.6841
Total		234.4745	0.0198	2.4000e-003	235.6841

6.0 Area Detail

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

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	1.3421	0.1158	1.2754	7.1000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	119.6884	119.6884	4.1900e-003	2.1600e-003	120.4360
Unmitigated	11.7461	0.2176	14.0894	0.0234		1.8095	1.8095		1.8095	1.8095	171.4710	73.9260	245.3970	0.1602	0.0135	253.4205

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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

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0993					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	10.4159	0.2034	12.8573	0.0233		1.8027	1.8027		1.8027	1.8027	171.4710	71.9124	243.3834	0.1582	0.0135	251.3587
Landscaping	0.0371	0.0142	1.2321	7.0000e-005		6.8300e-003	6.8300e-003		6.8300e-003	6.8300e-003	0.0000	2.0136	2.0136	1.9300e-003	0.0000	2.0619
Total	11.7461	0.2176	14.0894	0.0234		1.8095	1.8095		1.8095	1.8095	171.4710	73.9260	245.3970	0.1602	0.0135	253.4205

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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	0.0993					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1939					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0119	0.1016	0.0432	6.5000e-004		8.2200e-003	8.2200e-003		8.2200e-003	8.2200e-003	0.0000	117.6749	117.6749	2.2600e-003	2.1600e-003	118.3742
Landscaping	0.0371	0.0142	1.2321	7.0000e-005		6.8300e-003	6.8300e-003		6.8300e-003	6.8300e-003	0.0000	2.0136	2.0136	1.9300e-003	0.0000	2.0619
Total	1.3421	0.1158	1.2754	7.2000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	119.6884	119.6884	4.1900e-003	2.1600e-003	120.4360

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8413	0.3557	8.7100e-003	53.3299
Unmitigated	41.8413	0.3557	8.7100e-003	53.3299

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.8156 / 6.81851	41.8413	0.3557	8.7100e-003	53.3299
Total		41.8413	0.3557	8.7100e-003	53.3299

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.8156 / 6.81851	41.8413	0.3557	8.7100e-003	53.3299
Total		41.8413	0.3557	8.7100e-003	53.3299

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	39.5325	2.3363	0.0000	97.9401
Unmitigated	39.5325	2.3363	0.0000	97.9401

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	194.75	39.5325	2.3363	0.0000	97.9401
Total		39.5325	2.3363	0.0000	97.9401

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	194.75	39.5325	2.3363	0.0000	97.9401
Total		39.5325	2.3363	0.0000	97.9401

9.0 Operational Offroad

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

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

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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
Excavators	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	2	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
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

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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	4.70000E-003	3.15000E-002	4.97500E-002	8.00000E-005	1.42000E-003	1.42000E-003	0.00000E+000	7.02145E+000	7.02145E+000	3.80000E-004	0.00000E+000	7.03102E+000
Cranes	1.07970E-001	1.14006E+000	5.78050E-001	1.87000E-003	4.77700E-002	4.39400E-002	0.00000E+000	1.64125E+002	1.64125E+002	5.30800E-002	0.00000E+000	1.65452E+002
Excavators	1.51800E-002	1.33270E-001	2.44140E-001	3.90000E-004	6.44000E-003	5.93000E-003	0.00000E+000	3.40205E+001	3.40205E+001	1.10000E-002	0.00000E+000	3.42955E+001
Forklifts	1.05620E-001	9.90930E-001	1.26510E+000	1.70000E-003	5.77000E-002	5.30900E-002	0.00000E+000	1.49063E+002	1.49063E+002	4.82100E-002	0.00000E+000	1.50269E+002
Generator Sets	1.06300E-001	9.48800E-001	1.35591E+000	2.43000E-003	4.17100E-002	4.17100E-002	0.00000E+000	2.09127E+002	2.09127E+002	8.52000E-003	0.00000E+000	2.09340E+002
Graders	1.55600E-002	1.97160E-001	6.45700E-002	2.50000E-004	6.27000E-003	5.77000E-003	0.00000E+000	2.18159E+001	2.18159E+001	7.06000E-003	0.00000E+000	2.19923E+001
Pavers	9.56000E-003	8.70700E-002	1.59270E-001	2.60000E-004	4.08000E-003	3.75000E-003	0.00000E+000	2.27020E+001	2.27020E+001	7.34000E-003	0.00000E+000	2.28855E+001
Paving Equipment	8.07000E-003	6.95600E-002	1.40060E-001	2.20000E-004	3.44000E-003	3.16000E-003	0.00000E+000	1.96745E+001	1.96745E+001	6.36000E-003	0.00000E+000	1.98336E+001
Rollers	7.53000E-003	7.93700E-002	1.01570E-001	1.40000E-004	3.99000E-003	3.67000E-003	0.00000E+000	1.26765E+001	1.26765E+001	4.10000E-003	0.00000E+000	1.27790E+001
Rubber Tired Dozers	6.90600E-002	7.25480E-001	2.95510E-001	7.00000E-004	3.44300E-002	3.16800E-002	0.00000E+000	6.18976E+001	6.18976E+001	2.00200E-002	0.00000E+000	6.23981E+001
Scrapers	6.14400E-002	6.70760E-001	4.78190E-001	1.14000E-003	2.61800E-002	2.40900E-002	0.00000E+000	1.00037E+002	1.00037E+002	3.23500E-002	0.00000E+000	1.00846E+002
Tractors/Loaders/Backhoes	1.61400E-001	1.63252E+000	2.47034E+000	3.45000E-003	7.66100E-002	7.04800E-002	0.00000E+000	3.02792E+002	3.02792E+002	9.79300E-002	0.00000E+000	3.05240E+002
Welders	8.80700E-002	5.12140E-001	6.16220E-001	9.50000E-004	1.79000E-002	1.79000E-002	0.00000E+000	6.96416E+001	6.96416E+001	7.15000E-003	0.00000E+000	6.98203E+001

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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	4.70000E-003	3.15000E-002	4.97500E-002	8.00000E-005	1.42000E-003	1.42000E-003	0.00000E+000	7.02144E+000	7.02144E+000	3.80000E-004	0.00000E+000	7.03101E+000
Cranes	1.07970E-001	1.14006E+000	5.78050E-001	1.87000E-003	4.77700E-002	4.39400E-002	0.00000E+000	1.64125E+002	1.64125E+002	5.30800E-002	0.00000E+000	1.65452E+002
Excavators	1.51800E-002	1.33270E-001	2.44140E-001	3.90000E-004	6.44000E-003	5.93000E-003	0.00000E+000	3.40204E+001	3.40204E+001	1.10000E-002	0.00000E+000	3.42955E+001
Forklifts	1.05620E-001	9.90930E-001	1.26510E+000	1.70000E-003	5.77000E-002	5.30900E-002	0.00000E+000	1.49063E+002	1.49063E+002	4.82100E-002	0.00000E+000	1.50268E+002
Generator Sets	1.06300E-001	9.48790E-001	1.35591E+000	2.43000E-003	4.17100E-002	4.17100E-002	0.00000E+000	2.09127E+002	2.09127E+002	8.52000E-003	0.00000E+000	2.09340E+002
Graders	1.55600E-002	1.97160E-001	6.45700E-002	2.50000E-004	6.27000E-003	5.77000E-003	0.00000E+000	2.18159E+001	2.18159E+001	7.06000E-003	0.00000E+000	2.19923E+001
Pavers	9.56000E-003	8.70700E-002	1.59270E-001	2.60000E-004	4.08000E-003	3.75000E-003	0.00000E+000	2.27019E+001	2.27019E+001	7.34000E-003	0.00000E+000	2.28855E+001
Paving Equipment	8.07000E-003	6.95600E-002	1.40060E-001	2.20000E-004	3.44000E-003	3.16000E-003	0.00000E+000	1.96745E+001	1.96745E+001	6.36000E-003	0.00000E+000	1.98336E+001
Rollers	7.53000E-003	7.93700E-002	1.01570E-001	1.40000E-004	3.99000E-003	3.67000E-003	0.00000E+000	1.26765E+001	1.26765E+001	4.10000E-003	0.00000E+000	1.27789E+001
Rubber Tired Dozers	6.90600E-002	7.25480E-001	2.95510E-001	7.00000E-004	3.44300E-002	3.16800E-002	0.00000E+000	6.18975E+001	6.18975E+001	2.00200E-002	0.00000E+000	6.23980E+001
Scrapers	6.14400E-002	6.70760E-001	4.78180E-001	1.14000E-003	2.61800E-002	2.40900E-002	0.00000E+000	1.00037E+002	1.00037E+002	3.23500E-002	0.00000E+000	1.00846E+002
Tractors/Loaders/Balckhoes	1.61400E-001	1.63252E+000	2.47034E+000	3.45000E-003	7.66100E-002	7.04800E-002	0.00000E+000	3.02791E+002	3.02791E+002	9.79300E-002	0.00000E+000	3.05240E+002
Welders	8.80700E-002	5.12140E-001	6.16210E-001	9.50000E-004	1.79000E-002	1.79000E-002	0.00000E+000	6.96416E+001	6.96416E+001	7.15000E-003	0.00000E+000	6.98202E+001

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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	1.42421E-006	1.42421E-006	0.00000E+000	0.00000E+000	1.42227E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21858E-006	1.21858E-006	0.00000E+000	0.00000E+000	1.14837E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17576E-006	1.17576E-006	0.00000E+000	0.00000E+000	1.16633E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14045E-006	1.14045E-006	0.00000E+000	0.00000E+000	1.19785E-006
Generator Sets	0.00000E+000	1.05396E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19545E-006	1.19545E-006	0.00000E+000	0.00000E+000	1.19423E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.16761E-007	9.16761E-007	0.00000E+000	0.00000E+000	1.36411E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32147E-006	1.32147E-006	0.00000E+000	0.00000E+000	1.31087E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.01654E-006	1.01654E-006	0.00000E+000	0.00000E+000	1.51258E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.88864E-007	7.88864E-007	0.00000E+000	0.00000E+000	1.56507E-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	1.13090E-006	1.13090E-006	0.00000E+000	0.00000E+000	1.28209E-006
Scrapers	0.00000E+000	0.00000E+000	2.09122E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09959E-006	1.09959E-006	0.00000E+000	0.00000E+000	1.18993E-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	1.18894E-006	1.18894E-006	0.00000E+000	0.00000E+000	1.17940E-006
Welders	0.00000E+000	0.00000E+000	1.62280E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14874E-006	1.14874E-006	0.00000E+000	0.00000E+000	1.28902E-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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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	0.01	0.00	0.01	0.00	0.17	0.16
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.91	0.25	0.76	0.21	0.17	0.15
Grading	Fugitive Dust	0.35	0.14	0.13	0.05	0.61	0.61
Grading	Roads	0.01	0.00	0.01	0.00	0.16	0.15
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	0.16
Site Preparation	Fugitive Dust	0.29	0.15	0.11	0.06	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.16

Operational Percent Reduction Summary

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	99.89	50.05	99.66	97.21	99.54	99.54	100.00	-63.64	51.65	98.57	83.99	52.91
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	0.00	0.00	0.00	0.00	0.00	0.00
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	0.11	0.33		
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			

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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

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

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter 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
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	100.00
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		

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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		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

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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	