

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Elite Truck Repair Project
Sacramento Metropolitan AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.85	1000sqft	0.48	20,850.00	0
Parking Lot	170.00	1000sqft	3.90	170,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Assumed operational in 2024

Land Use - 20,850 sq ft building with associated car parking and truck parking. Remaining lot acreage is vegetated for bio retention

Construction Phase - Total days representative of project size

Off-road Equipment - Number suitable for site construction phases

Off-road Equipment - Number suitable for phase

Off-road Equipment - Number suitable for phase

Off-road Equipment - Number suitable for phase

Off-road Equipment -

Grading - graded area

Architectural Coating - low VOC paint

Area Coating - Low voc paint

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Construction Off-road Equipment Mitigation - water exposed soil during construction.

Mobile Land Use Mitigation -

Area Mitigation - low voc paint

Energy Mitigation - install photovoltaic

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	18.00	9.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	PhaseEndDate	5/23/2024	3/22/2024
tblConstructionPhase	PhaseEndDate	4/3/2024	2/21/2024
tblConstructionPhase	PhaseEndDate	4/29/2024	3/11/2024
tblConstructionPhase	PhaseStartDate	4/30/2024	3/12/2024
tblConstructionPhase	PhaseStartDate	4/4/2024	2/22/2024
tblGrading	AcresOfGrading	2.50	7.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.6033	16.4212	14.6233	0.0326	7.6509	0.6996	8.0478	3.4921	0.6437	4.0946	0.0000	3,191.1686	3,191.1686	0.8341	0.1069	3,234.4630
2024	13.5953	11.9317	14.3799	0.0323	0.7953	0.4640	1.2593	0.2152	0.4398	0.6550	0.0000	3,160.9182	3,160.9182	0.4525	0.1043	3,203.3207
Maximum	13.5953	16.4212	14.6233	0.0326	7.6509	0.6996	8.0478	3.4921	0.6437	4.0946	0.0000	3,191.1686	3,191.1686	0.8341	0.1069	3,234.4630

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.6033	16.4212	12.9453	0.0301	3.0070	0.6996	3.5607	1.3681	0.6437	2.0055	0.0000	2,983.6909	2,983.6909	0.8341	0.1069	3,026.4194
2024	13.5953	10.5509	12.7162	0.0298	0.7953	0.4165	1.2118	0.2152	0.3923	0.6075	0.0000	2,953.4405	2,953.4405	0.4314	0.1043	2,995.3136
Maximum	13.5953	16.4212	12.9453	0.0301	3.0070	0.6996	3.5607	1.3681	0.6437	2.0055	0.0000	2,983.6909	2,983.6909	0.8341	0.1069	3,026.4194

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	4.87	11.52	7.87	54.98	4.08	48.72	57.29	4.38	44.98	0.00	6.53	6.53	1.65	0.00	6.46

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445
Energy	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647
Mobile	0.3523	0.3544	2.9331	6.1200e-003	0.6080	4.5100e-003	0.6125	0.1621	4.2200e-003	0.1663		623.7311	623.7311	0.0377	0.0277	632.9214
Total	0.9153	0.5538	3.1199	7.3200e-003	0.6080	0.0197	0.6277	0.1621	0.0194	0.1815		862.8170	862.8170	0.0424	0.0321	873.4306

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445
Energy	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647
Mobile	0.3523	0.3544	2.9331	6.1200e-003	0.6080	4.5100e-003	0.6125	0.1621	4.2200e-003	0.1663		623.7311	623.7311	0.0377	0.0277	632.9214
Total	0.9153	0.5538	3.1199	7.3200e-003	0.6080	0.0197	0.6277	0.1621	0.0194	0.1815		862.8170	862.8170	0.0424	0.0321	873.4306

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/29/2023	5/5/2023	5	5	
2	Grading	Grading	5/6/2023	5/17/2023	5	8	
3	Building Construction	Building Construction	5/18/2023	2/21/2024	5	200	
4	Paving	Paving	2/22/2024	3/11/2024	5	13	
5	Architectural Coating	Architectural Coating	3/12/2024	3/22/2024	5	9	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,275; Non-Residential Outdoor: 10,425; Striped Parking Area: 10,200 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

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Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	80.00	31.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Water Exposed Area

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3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	0.8360	8.6628	5.3377	0.0117		0.3967	0.3967		0.3650	0.3650		1,128.577 2	1,128.577 2	0.3650		1,137.702 3
Total	0.8360	8.6628	5.3377	0.0117	7.6128	0.3967	8.0096	3.4820	0.3650	3.8470		1,128.577 2	1,128.577 2	0.3650		1,137.702 3

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	0.0168	8.0900e-003	0.1359	3.5000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.8000e-004	0.0103		35.1443	35.1443	9.8000e-004	8.7000e-004	35.4291
Total	0.0168	8.0900e-003	0.1359	3.5000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.8000e-004	0.0103		35.1443	35.1443	9.8000e-004	8.7000e-004	35.4291

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3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9690	0.0000	2.9690	1.3580	0.0000	1.3580			0.0000			0.0000
Off-Road	0.8360	8.6628	5.3377	0.0117		0.3967	0.3967		0.3650	0.3650	0.0000	1,128.577 2	1,128.577 2	0.3650		1,137.702 3
Total	0.8360	8.6628	5.3377	0.0117	2.9690	0.3967	3.3658	1.3580	0.3650	1.7230	0.0000	1,128.577 2	1,128.577 2	0.3650		1,137.702 3

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	0.0168	8.0900e-003	0.1359	3.5000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.8000e-004	0.0103		35.1443	35.1443	9.8000e-004	8.7000e-004	35.4291
Total	0.0168	8.0900e-003	0.1359	3.5000e-004	0.0380	2.0000e-004	0.0382	0.0101	1.8000e-004	0.0103		35.1443	35.1443	9.8000e-004	8.7000e-004	35.4291

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3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5595	16.4002	12.5194	0.0266		0.6991	0.6991		0.6432	0.6432		2,571.1145	2,571.1145	0.8316		2,591.9033
Total	1.5595	16.4002	12.5194	0.0266	7.0826	0.6991	7.7817	3.4247	0.6432	4.0679		2,571.1145	2,571.1145	0.8316		2,591.9033

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	0.0438	0.0210	0.3533	9.0000e-004	0.0989	5.1000e-004	0.0994	0.0262	4.7000e-004	0.0267		91.3752	91.3752	2.5400e-003	2.2700e-003	92.1157
Total	0.0438	0.0210	0.3533	9.0000e-004	0.0989	5.1000e-004	0.0994	0.0262	4.7000e-004	0.0267		91.3752	91.3752	2.5400e-003	2.2700e-003	92.1157

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3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.5595	16.4002	12.5194	0.0266		0.6991	0.6991		0.6432	0.6432	0.0000	2,571.114 5	2,571.114 5	0.8316		2,591.903 3
Total	1.5595	16.4002	12.5194	0.0266	2.7622	0.6991	3.4613	1.3357	0.6432	1.9788	0.0000	2,571.114 5	2,571.114 5	0.8316		2,591.903 3

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	0.0438	0.0210	0.3533	9.0000e-004	0.0989	5.1000e-004	0.0994	0.0262	4.7000e-004	0.0267		91.3752	91.3752	2.5400e-003	2.2700e-003	92.1157
Total	0.0438	0.0210	0.3533	9.0000e-004	0.0989	5.1000e-004	0.0994	0.0262	4.7000e-004	0.0267		91.3752	91.3752	2.5400e-003	2.2700e-003	92.1157

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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	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883		1,995.2688	1,995.2688	0.4268		2,005.9376
Total	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883		1,995.2688	1,995.2688	0.4268		2,005.9376

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	0.0415	1.4354	0.4469	5.9100e-003	0.1868	8.0100e-003	0.1948	0.0538	7.6700e-003	0.0614		633.5911	633.5911	0.0157	0.0929	661.6594
Worker	0.2694	0.1294	2.1744	5.5600e-003	0.6086	3.1300e-003	0.6117	0.1614	2.8800e-003	0.1643		562.3087	562.3087	0.0156	0.0140	566.8661
Total	0.3109	1.5649	2.6212	0.0115	0.7953	0.0111	0.8065	0.2152	0.0106	0.2257		1,195.8998	1,195.8998	0.0313	0.1069	1,228.5255

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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	0.9808	9.7013	10.3241	0.0186		0.4597	0.4597		0.4332	0.4332	0.0000	1,787.791 1	1,787.791 1	0.4041		1,797.893 9
Total	0.9808	9.7013	10.3241	0.0186		0.4597	0.4597		0.4332	0.4332	0.0000	1,787.791 1	1,787.791 1	0.4041		1,797.893 9

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	0.0415	1.4354	0.4469	5.9100e-003	0.1868	8.0100e-003	0.1948	0.0538	7.6700e-003	0.0614		633.5911	633.5911	0.0157	0.0929	661.6594
Worker	0.2694	0.1294	2.1744	5.5600e-003	0.6086	3.1300e-003	0.6117	0.1614	2.8800e-003	0.1643		562.3087	562.3087	0.0156	0.0140	566.8661
Total	0.3109	1.5649	2.6212	0.0115	0.7953	0.0111	0.8065	0.2152	0.0106	0.2257		1,195.899 8	1,195.899 8	0.0313	0.1069	1,228.525 5

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295		1,995.5913	1,995.5913	0.4232		2,006.1714
Total	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295		1,995.5913	1,995.5913	0.4232		2,006.1714

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	0.0397	1.4069	0.4328	5.7900e-003	0.1868	7.9000e-003	0.1946	0.0538	7.5500e-003	0.0613		621.5244	621.5244	0.0152	0.0913	649.1179
Worker	0.2515	0.1153	2.0150	5.3800e-003	0.6086	2.9700e-003	0.6115	0.1614	2.7400e-003	0.1642		543.8025	543.8025	0.0141	0.0130	548.0315
Total	0.2912	1.5222	2.4479	0.0112	0.7953	0.0109	0.8062	0.2152	0.0103	0.2255		1,165.3269	1,165.3269	0.0293	0.1043	1,197.1493

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.9214	9.0288	10.2684	0.0186		0.4056	0.4056		0.3821	0.3821	0.0000	1,788.1136	1,788.1136	0.4020		1,798.1643
Total	0.9214	9.0288	10.2684	0.0186		0.4056	0.4056		0.3821	0.3821	0.0000	1,788.1136	1,788.1136	0.4020		1,798.1643

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	0.0397	1.4069	0.4328	5.7900e-003	0.1868	7.9000e-003	0.1946	0.0538	7.5500e-003	0.0613		621.5244	621.5244	0.0152	0.0913	649.1179
Worker	0.2515	0.1153	2.0150	5.3800e-003	0.6086	2.9700e-003	0.6115	0.1614	2.7400e-003	0.1642		543.8025	543.8025	0.0141	0.0130	548.0315
Total	0.2912	1.5222	2.4479	0.0112	0.7953	0.0109	0.8062	0.2152	0.0103	0.2255		1,165.3269	1,165.3269	0.0293	0.1043	1,197.1493

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.7316	8.6748	0.0134		0.2732	0.2732		0.2522	0.2522		1,281.2747	1,281.2747	0.4061		1,291.4265
Paving	0.7860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3905	5.7316	8.6748	0.0134		0.2732	0.2732		0.2522	0.2522		1,281.2747	1,281.2747	0.4061		1,291.4265

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	0.0409	0.0187	0.3274	8.7000e-004	0.0989	4.8000e-004	0.0994	0.0262	4.4000e-004	0.0267		88.3679	88.3679	2.2900e-003	2.1100e-003	89.0551
Total	0.0409	0.0187	0.3274	8.7000e-004	0.0989	4.8000e-004	0.0994	0.0262	4.4000e-004	0.0267		88.3679	88.3679	2.2900e-003	2.1100e-003	89.0551

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.7316	8.6748	0.0134		0.2732	0.2732		0.2522	0.2522	0.0000	1,281.2747	1,281.2747	0.4061		1,291.4265
Paving	0.7860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3905	5.7316	8.6748	0.0134		0.2732	0.2732		0.2522	0.2522	0.0000	1,281.2747	1,281.2747	0.4061		1,291.4265

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	0.0409	0.0187	0.3274	8.7000e-004	0.0989	4.8000e-004	0.0994	0.0262	4.4000e-004	0.0267		88.3679	88.3679	2.2900e-003	2.1100e-003	89.0551
Total	0.0409	0.0187	0.3274	8.7000e-004	0.0989	4.8000e-004	0.0994	0.0262	4.4000e-004	0.0267		88.3679	88.3679	2.2900e-003	2.1100e-003	89.0551

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.3643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	13.5450	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0503	0.0231	0.4030	1.0800e-003	0.1217	5.9000e-004	0.1223	0.0323	5.5000e-004	0.0328		108.7605	108.7605	2.8200e-003	2.6000e-003	109.6063
Total	0.0503	0.0231	0.4030	1.0800e-003	0.1217	5.9000e-004	0.1223	0.0323	5.5000e-004	0.0328		108.7605	108.7605	2.8200e-003	2.6000e-003	109.6063

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.3643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	13.5450	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0503	0.0231	0.4030	1.0800e-003	0.1217	5.9000e-004	0.1223	0.0323	5.5000e-004	0.0328		108.7605	108.7605	2.8200e-003	2.6000e-003	109.6063
Total	0.0503	0.0231	0.4030	1.0800e-003	0.1217	5.9000e-004	0.1223	0.0323	5.5000e-004	0.0328		108.7605	108.7605	2.8200e-003	2.6000e-003	109.6063

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3523	0.3544	2.9331	6.1200e-003	0.6080	4.5100e-003	0.6125	0.1621	4.2200e-003	0.1663		623.7311	623.7311	0.0377	0.0277	632.9214
Unmitigated	0.3523	0.3544	2.9331	6.1200e-003	0.6080	4.5100e-003	0.6125	0.1621	4.2200e-003	0.1663		623.7311	623.7311	0.0377	0.0277	632.9214

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	103.42	41.49	104.25	261,885	261,885
Parking Lot	0.00	0.00	0.00		
Total	103.42	41.49	104.25	261,885	261,885

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Parking Lot	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647
NaturalGas Unmitigated	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	2031.88	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	2.03188	0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0219	0.1992	0.1673	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.0442	239.0442	4.5800e-003	4.3800e-003	240.4647

6.0 Area Detail

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445
Unmitigated	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445

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	0.0330					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-003	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445
Total	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0330					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-003	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445
Total	0.5412	1.8000e-004	0.0195	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0418	0.0418	1.1000e-004		0.0445

7.0 Water Detail

7.1 Mitigation Measures Water

Elite Truck Repair Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
