

25550 Clawiter Road Industrial Project - Alameda County, Annual

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

25550 Clawiter Road Industrial Project

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	387.30	1000sqft	8.89	387,300.00	0
Parking Lot	775.00	Space	11.65	310,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Land Use - two industrial buildings, 232,653 and 154,618 square feet

Construction Phase - Schedule provided by client

Off-road Equipment - Building construction duration takes approximately half the default estimated duration. Doubled CalEEMod default equipment quantities.

Architectural Coating - BAAQMD Rule 8-3

Vehicle Trips - Revised to 6.44 trips/ksf to match VMT Impact Memo

Water And Wastewater - Added Estimated Landscape Water Use from Irrigation Hydrozone Plan (11/30/2020)

Construction Off-road Equipment Mitigation - Standard site watering

Stationary Sources - Emergency Generators and Fire Pumps EF - Off-Road Compression - Ignition Diesel Engine Standards (Tier 4 for generators after 2015+)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00

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tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	10.00	38.00
tblConstructionPhase	NumDays	35.00	41.00
tblConstructionPhase	NumDays	370.00	134.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	20.00	15.00
tblLandUse	LotAcreage	6.97	11.65
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.42	6.44
tblVehicleTrips	SU_TR	5.09	6.44
tblVehicleTrips	WD_TR	3.93	6.44
tblWater	OutdoorWaterUseRate	0.00	1,634,685.00

2.0 Emissions Summary**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
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Year	tons/yr										MT/yr					
2021	0.2109	2.1174	1.4621	3.1700e-003	0.6156	0.0965	0.7121	0.2813	0.0891	0.3705	0.0000	282.4597	282.4597	0.0672	6.5500e-003	286.0900
2022	1.3443	1.2943	1.5228	4.0900e-003	0.1753	0.0528	0.2282	0.0475	0.0498	0.0974	0.0000	372.5917	372.5917	0.0393	0.0210	379.8311
Maximum	1.3443	2.1174	1.5228	4.0900e-003	0.6156	0.0965	0.7121	0.2813	0.0891	0.3705	0.0000	372.5917	372.5917	0.0672	0.0210	379.8311

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					
2021	0.2109	2.1174	1.4621	3.1700e-003	0.3064	0.0965	0.4029	0.1346	0.0891	0.2237	0.0000	282.4595	282.4595	0.0672	6.5500e-003	286.0898
2022	1.3443	1.2943	1.5228	4.0900e-003	0.1753	0.0528	0.2282	0.0475	0.0498	0.0974	0.0000	372.5916	372.5916	0.0393	0.0210	379.8310
Maximum	1.3443	2.1174	1.5228	4.0900e-003	0.3064	0.0965	0.4029	0.1346	0.0891	0.2237	0.0000	372.5916	372.5916	0.0672	0.0210	379.8310

	ROG	NOx	CO	SO2	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	39.09	0.00	32.88	44.63	0.00	31.37	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	8-2-2021	11-1-2021	1.5504	1.5504
2	11-2-2021	2-1-2022	1.0425	1.0425
3	2-2-2022	5-1-2022	1.8417	1.8417
4	5-2-2022	8-1-2022	0.5117	0.5117

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		Highest	1.8417	1.8417
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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	tons/yr										MT/yr					
Area	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221
Energy	0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	784.0968	784.0968	0.0544	0.0147	789.8464
Mobile	1.2594	1.8190	12.4036	0.0270	2.6863	0.0240	2.7103	0.7175	0.0225	0.7400	0.0000	2,504.0254	2,504.0254	0.1523	0.1271	2,545.6957
Stationary	0.1190	0.0583	0.3034	5.7000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	55.2156	55.2156	7.7400e-003	0.0000	55.4091
Waste						0.0000	0.0000		0.0000	0.0000	97.4864	0.0000	97.4864	5.7613	0.0000	241.5185
Water						0.0000	0.0000		0.0000	0.0000	28.4143	45.3688	73.7830	2.9258	0.0698	167.7273
Total	3.1718	2.3439	13.1095	0.0303	2.6863	0.0618	2.7481	0.7175	0.0603	0.7778	125.9007	3,388.7274	3,514.6280	8.9015	0.2116	3,800.2191

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	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221

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Energy	0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	784.0968	784.0968	0.0544	0.0147	789.8464
Mobile	1.2594	1.8190	12.4036	0.0270	2.6863	0.0240	2.7103	0.7175	0.0225	0.7400	0.0000	2,504.0254	2,504.0254	0.1523	0.1271	2,545.6957
Stationary	0.1190	0.0583	0.3034	5.7000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	55.2156	55.2156	7.7400e-003	0.0000	55.4091
Waste						0.0000	0.0000		0.0000	0.0000	97.4864	0.0000	97.4864	5.7613	0.0000	241.5185
Water						0.0000	0.0000		0.0000	0.0000	28.4143	45.3688	73.7830	2.9258	0.0698	167.7273
Total	3.1718	2.3439	13.1095	0.0303	2.6863	0.0618	2.7481	0.7175	0.0603	0.7778	125.9007	3,388.7274	3,514.6280	8.9015	0.2116	3,800.2191

	ROG	NOx	CO	SO2	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	8/2/2021	9/22/2021	5	38	
2	Grading	Grading	9/23/2021	11/18/2021	5	41	
3	Building Construction	Building Construction	11/19/2021	5/25/2022	5	134	
4	Architectural Coating	Architectural Coating	2/16/2022	5/25/2022	5	71	
5	Paving	Paving	3/11/2022	3/31/2022	5	15	

Acres of Grading (Site Preparation Phase): 57**Acres of Grading (Grading Phase): 123****Acres of Paving: 11.65****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,950; Non-Residential Outdoor: 193,650; Striped Parking Area: 18,600**

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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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	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

3.1 Mitigation Measures Construction

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Water Exposed Area

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3735	0.0000	0.3735	0.1920	0.0000	0.1920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.7694	0.4019	7.2000e-004		0.0388	0.0388		0.0357	0.0357	0.0000	63.5279	63.5279	0.0206	0.0000	64.0415
Total	0.0739	0.7694	0.4019	7.2000e-004	0.3735	0.0388	0.4123	0.1920	0.0357	0.2277	0.0000	63.5279	63.5279	0.0206	0.0000	64.0415

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	1.0400e-003	7.9000e-004	8.9300e-003	2.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.2458	2.2458	8.0000e-005	7.0000e-005	2.2683
Total	1.0400e-003	7.9000e-004	8.9300e-003	2.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.2458	2.2458	8.0000e-005	7.0000e-005	2.2683

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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					0.1681	0.0000	0.1681	0.0864	0.0000	0.0864	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.7694	0.4019	7.2000e-004		0.0388	0.0388		0.0357	0.0357	0.0000	63.5278	63.5278	0.0206	0.0000	64.0414
Total	0.0739	0.7694	0.4019	7.2000e-004	0.1681	0.0388	0.2069	0.0864	0.0357	0.1221	0.0000	63.5278	63.5278	0.0206	0.0000	64.0414

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	1.0400e-003	7.9000e-004	8.9300e-003	2.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.2458	2.2458	8.0000e-005	7.0000e-005	2.2683
Total	1.0400e-003	7.9000e-004	8.9300e-003	2.0000e-005	2.7000e-003	2.0000e-005	2.7200e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.2458	2.2458	8.0000e-005	7.0000e-005	2.2683

3.3 Grading - 2021

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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					0.1887	0.0000	0.1887	0.0749	0.0000	0.0749	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0859	0.9512	0.6330	1.2700e-003		0.0407	0.0407		0.0374	0.0374	0.0000	111.7147	111.7147	0.0361	0.0000	112.6180
Total	0.0859	0.9512	0.6330	1.2700e-003	0.1887	0.0407	0.2294	0.0749	0.0374	0.1123	0.0000	111.7147	111.7147	0.0361	0.0000	112.6180

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	1.2400e-003	9.4000e-004	0.0107	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6923	2.6923	9.0000e-005	8.0000e-005	2.7193
Total	1.2400e-003	9.4000e-004	0.0107	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6923	2.6923	9.0000e-005	8.0000e-005	2.7193

Mitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0859	0.9512	0.6330	1.2700e-003		0.0407	0.0407		0.0374	0.0374	0.0000	111.7146	111.7146	0.0361	0.0000	112.6179
Total	0.0859	0.9512	0.6330	1.2700e-003	0.0849	0.0407	0.1256	0.0337	0.0374	0.0712	0.0000	111.7146	111.7146	0.0361	0.0000	112.6179

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	1.2400e-003	9.4000e-004	0.0107	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6923	2.6923	9.0000e-005	8.0000e-005	2.7193
Total	1.2400e-003	9.4000e-004	0.0107	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.6923	2.6923	9.0000e-005	8.0000e-005	2.7193

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203
Total	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203

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	5.5700e-003	0.1144	0.0320	3.8000e-004	0.0116	1.8200e-003	0.0134	3.3600e-003	1.7400e-003	5.1000e-003	0.0000	36.5529	36.5529	6.2000e-004	5.4800e-003	38.2012
Worker	0.0138	0.0104	0.1186	3.2000e-004	0.0359	2.1000e-004	0.0361	9.5500e-003	1.9000e-004	9.7400e-003	0.0000	29.8224	29.8224	1.0200e-003	9.2000e-004	30.1214
Total	0.0193	0.1248	0.1506	7.0000e-004	0.0475	2.0300e-003	0.0496	0.0129	1.9300e-003	0.0148	0.0000	66.3753	66.3753	1.6400e-003	6.4000e-003	68.3226

Mitigated Construction On-Site

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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					
Off-Road	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203
Total	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203

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	5.5700e-003	0.1144	0.0320	3.8000e-004	0.0116	1.8200e-003	0.0134	3.3600e-003	1.7400e-003	5.1000e-003	0.0000	36.5529	36.5529	6.2000e-004	5.4800e-003	38.2012
Worker	0.0138	0.0104	0.1186	3.2000e-004	0.0359	2.1000e-004	0.0361	9.5500e-003	1.9000e-004	9.7400e-003	0.0000	29.8224	29.8224	1.0200e-003	9.2000e-004	30.1214
Total	0.0193	0.1248	0.1506	7.0000e-004	0.0475	2.0300e-003	0.0496	0.0129	1.9300e-003	0.0148	0.0000	66.3753	66.3753	1.6400e-003	6.4000e-003	68.3226

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					

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

Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
Total	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533

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	0.0120	0.3216	0.0902	1.2300e-003	0.0386	3.2600e-003	0.0418	0.0112	3.1200e-003	0.0143	0.0000	118.5369	118.5369	1.7900e-003	0.0178	123.8763
Worker	0.0424	0.0306	0.3630	1.0500e-003	0.1193	6.5000e-004	0.1200	0.0317	6.0000e-004	0.0323	0.0000	96.5153	96.5153	3.0600e-003	2.8100e-003	97.4304
Total	0.0544	0.3522	0.4532	2.2800e-003	0.1579	3.9100e-003	0.1618	0.0429	3.7200e-003	0.0466	0.0000	215.0521	215.0521	4.8500e-003	0.0206	221.3067

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	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
Total	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0120	0.3216	0.0902	1.2300e-003	0.0386	3.2600e-003	0.0418	0.0112	3.1200e-003	0.0143	0.0000	118.5369	118.5369	1.7900e-003	0.0178	123.8763
Worker	0.0424	0.0306	0.3630	1.0500e-003	0.1193	6.5000e-004	0.1200	0.0317	6.0000e-004	0.0323	0.0000	96.5153	96.5153	3.0600e-003	2.8100e-003	97.4304
Total	0.0544	0.3522	0.4532	2.2800e-003	0.1579	3.9100e-003	0.1618	0.0429	3.7200e-003	0.0466	0.0000	215.0521	215.0521	4.8500e-003	0.0206	221.3067

3.5 Architectural Coating - 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					
Archit. Coating	1.1651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.0500	0.0644	1.1000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	9.0641	9.0641	5.9000e-004	0.0000	9.0788
Total	1.1723	0.0500	0.0644	1.1000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	9.0641	9.0641	5.9000e-004	0.0000	9.0788

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8900e-003	4.2400e-003	0.0504	1.5000e-004	0.0166	9.0000e-005	0.0167	4.4100e-003	8.0000e-005	4.4900e-003	0.0000	13.3968	13.3968	4.2000e-004	3.9000e-004	13.5238
Total	5.8900e-003	4.2400e-003	0.0504	1.5000e-004	0.0166	9.0000e-005	0.0167	4.4100e-003	8.0000e-005	4.4900e-003	0.0000	13.3968	13.3968	4.2000e-004	3.9000e-004	13.5238

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.0500	0.0644	1.1000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	9.0640	9.0640	5.9000e-004	0.0000	9.0788
Total	1.1723	0.0500	0.0644	1.1000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	9.0640	9.0640	5.9000e-004	0.0000	9.0788

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8900e-003	4.2400e-003	0.0504	1.5000e-004	0.0166	9.0000e-005	0.0167	4.4100e-003	8.0000e-005	4.4900e-003	0.0000	13.3968	13.3968	4.2000e-004	3.9000e-004	13.5238
Total	5.8900e-003	4.2400e-003	0.0504	1.5000e-004	0.0166	9.0000e-005	0.0167	4.4100e-003	8.0000e-005	4.4900e-003	0.0000	13.3968	13.3968	4.2000e-004	3.9000e-004	13.5238

3.6 Paving - 2022Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0235	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421

Unmitigated Construction Off-Site

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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					
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	3.2000e-004	2.3000e-004	2.7100e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7196	0.7196	2.0000e-005	2.0000e-005	0.7264
Total	3.2000e-004	2.3000e-004	2.7100e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7196	0.7196	2.0000e-005	2.0000e-005	0.7264

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0235	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421

Mitigated Construction Off-Site

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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					
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	3.2000e-004	2.3000e-004	2.7100e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7196	0.7196	2.0000e-005	2.0000e-005	0.7264
Total	3.2000e-004	2.3000e-004	2.7100e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7196	0.7196	2.0000e-005	2.0000e-005	0.7264

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	tons/yr										MT/yr					
Mitigated	1.2594	1.8190	12.4036	0.0270	2.6863	0.0240	2.7103	0.7175	0.0225	0.7400	0.0000	2,504.0254	2,504.0254	0.1523	0.1271	2,545.6957
Unmitigated	1.2594	1.8190	12.4036	0.0270	2.6863	0.0240	2.7103	0.7175	0.0225	0.7400	0.0000	2,504.0254	2,504.0254	0.1523	0.1271	2,545.6957

4.2 Trip Summary Information

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,494.21	2,494.21	2494.21	7,281,880	7,281,880
Parking Lot	0.00	0.00	0.00		
Total	2,494.21	2,494.21	2,494.21	7,281,880	7,281,880

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 Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	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
General Heavy Industry	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519
Parking Lot	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	276.2888	276.2888	0.0447	5.4200e-003	279.0209

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

Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	276.2888	276.2888	0.0447	5.4200e-003	279.0209
NaturalGas Mitigated	0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	507.8079	507.8079	9.7300e-003	9.3100e-003	510.8256
NaturalGas Unmitigated	0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	507.8079	507.8079	9.7300e-003	9.3100e-003	510.8256

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	9.51596e+006	0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	507.8079	507.8079	9.7300e-003	9.3100e-003	510.8256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	507.8079	507.8079	9.7300e-003	9.3100e-003	510.8256

Mitigated

[illegible]

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

Total		0.0513	0.4665	0.3918	2.8000e-003		0.0355	0.0355		0.0355	0.0355	0.0000	507.8079	507.8079	9.7300e-003	9.3100e-003	510.8256
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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			
General Heavy Industry	2.87764e+006	266.2500	0.0431	5.2200e-003	268.8828
Parking Lot	108500	10.0388	1.6200e-003	2.0000e-004	10.1381
Total		276.2888	0.0447	5.4200e-003	279.0209

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	2.87764e+006	266.2500	0.0431	5.2200e-003	268.8828
Parking Lot	108500	10.0388	1.6200e-003	2.0000e-004	10.1381
Total		276.2888	0.0447	5.4200e-003	279.0209

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

6.0 Area Detail

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 tons/yr											MT/yr					
Mitigated	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221
Unmitigated	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221

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	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.9000e-004	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221

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

Total	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221
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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	0.2084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.9000e-004	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221
Total	1.7421	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0208	0.0208	5.0000e-005	0.0000	0.0221

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	73.7830	2.9258	0.0698	167.7273

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

Unmitigated	73.7830	2.9258	0.0698	167.7273
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7.2 Water by Land Use**Unmitigated**

Indoor/Out door Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	89.5631 / 1.63468	73.7830	2.9258	0.0698	167.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		73.7830	2.9258	0.0698	167.7273

Mitigated

Indoor/Out door Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	89.5631 / 1.63468	73.7830	2.9258	0.0698	167.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		73.7830	2.9258	0.0698	167.7273

25550 Clawiter Road Industrial Project - Alameda County, Annual

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	97.4864	5.7613	0.0000	241.5185
Unmitigated	97.4864	5.7613	0.0000	241.5185

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	480.25	97.4864	5.7613	0.0000	241.5185
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		97.4864	5.7613	0.0000	241.5185

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	480.25	97.4864	5.7613	0.0000	241.5185
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		97.4864	5.7613	0.0000	241.5185

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
Emergency Generator	1	4	50	2100	0.73	Diesel
Emergency Generator	1	4	50	800	0.73	Diesel

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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25550 Clawiter Road Industrial Project - Alameda County, Annual

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (550,000 HP)	0.1190	0.0583	0.3034	5.7000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	55.2156	55.2156	7.7400e-003	0.0000	55.4091
Total	0.1190	0.0583	0.3034	5.7000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	55.2156	55.2156	7.7400e-003	0.0000	55.4091

11.0 Vegetation

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**25550 Clawiter Road Industrial Project**

Alameda County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	387.30	1000sqft	8.89	387,300.00	0
Parking Lot	775.00	Space	11.65	310,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Land Use - two industrial buildings, 232,653 and 154,618 square feet

Construction Phase - Schedule provided by client

Off-road Equipment - Building construction duration takes approximately half the default estimated duration. Doubled CalEEMod default equipment quantities.

Architectural Coating - BAAQMD Rule 8-3

Vehicle Trips - Revised to 6.44 trips/ksf to match VMT Impact Memo

Water And Wastewater - Added Estimated Landscape Water Use from Irrigation Hydrozone Plan (11/30/2020)

Construction Off-road Equipment Mitigation - Standard site watering

Stationary Sources - Emergency Generators and Fire Pumps EF - Off-Road Compression - Ignition Diesel Engine Standards (Tier 4 for generators after 2015+)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	10.00	38.00
tblConstructionPhase	NumDays	35.00	41.00
tblConstructionPhase	NumDays	370.00	134.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	20.00	15.00
tblLandUse	LotAcreage	6.97	11.65
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.42	6.44
tblVehicleTrips	SU_TR	5.09	6.44
tblVehicleTrips	WD_TR	3.93	6.44
tblWater	OutdoorWaterUseRate	0.00	1,634,685.00

2.0 Emissions Summary**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
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25550 Clawiter Road Industrial Project - Alameda County, Summer

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

Year	lb/day										lb/day					
2021	4.2558	46.4403	31.4448	0.0737	19.8049	2.0453	21.8502	10.1417	1.8817	12.0233	0.0000	7,422.8138	7,422.8138	1.9475	0.4494	7,574.9304
2022	39.2001	34.8317	44.0215	0.1037	3.7874	1.5379	5.3253	1.0221	1.4406	2.4627	0.0000	10,349.1685	10,349.1685	1.4594	0.4493	10,519.5593
Maximum	39.2001	46.4403	44.0215	0.1037	19.8049	2.0453	21.8502	10.1417	1.8817	12.0233	0.0000	10,349.1685	10,349.1685	1.9475	0.4494	10,519.5593

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					
2021	4.2558	46.4403	31.4448	0.0737	8.9935	2.0453	11.0388	4.5853	1.8817	6.4670	0.0000	7,422.8138	7,422.8138	1.9475	0.4494	7,574.9304
2022	39.2001	34.8317	44.0215	0.1037	3.7874	1.5379	5.3253	1.0221	1.4406	2.4627	0.0000	10,349.1685	10,349.1685	1.4594	0.4493	10,519.5593
Maximum	39.2001	46.4403	44.0215	0.1037	8.9935	2.0453	11.0388	4.5853	1.8817	6.4670	0.0000	10,349.1685	10,349.1685	1.9475	0.4494	10,519.5593

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.83	0.00	39.78	49.77	0.00	38.36	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Energy	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
Mobile	7.6262	9.2236	68.9229	0.1565	15.3305	0.1321	15.4626	4.0826	0.1237	4.2062		16,011.6983	16,011.6983	0.8643	0.7318	16,251.3651
Stationary	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
Total	36.4948	21.1151	119.7275	0.2634	15.3305	0.7002	16.0306	4.0826	0.6917	4.7743		28,817.5078	28,817.5078	2.2890	0.7880	29,109.5512

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	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Energy	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
Mobile	7.6262	9.2236	68.9229	0.1565	15.3305	0.1321	15.4626	4.0826	0.1237	4.2062		16,011.6983	16,011.6983	0.8643	0.7318	16,251.3651
Stationary	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
Total	36.4948	21.1151	119.7275	0.2634	15.3305	0.7002	16.0306	4.0826	0.6917	4.7743		28,817.5078	28,817.5078	2.2890	0.7880	29,109.5512

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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25550 Clawiter Road Industrial Project - Alameda County, Summer

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

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
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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	8/2/2021	9/22/2021	5	38	
2	Grading	Grading	9/23/2021	11/18/2021	5	41	
3	Building Construction	Building Construction	11/19/2021	5/25/2022	5	134	
4	Architectural Coating	Architectural Coating	2/16/2022	5/25/2022	5	71	
5	Paving	Paving	3/11/2022	3/31/2022	5	15	

Acres of Grading (Site Preparation Phase): 57**Acres of Grading (Grading Phase): 123****Acres of Paving: 11.65****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,950; Non-Residential Outdoor: 193,650; Striped Parking Area: 18,600****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

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

Total	3.8882	40.4971	21.1543	0.0380	19.6570	2.0445	21.7015	10.1025	1.8809	11.9834		3,685.6569	3,685.6569	1.1920		3,715.4573
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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	0.0582	0.0365	0.5097	1.3800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		139.4667	139.4667	4.1800e-003	3.6800e-003	140.6693
Total	0.0582	0.0365	0.5097	1.3800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		139.4667	139.4667	4.1800e-003	3.6800e-003	140.6693

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	8.8457	2.0445	10.8901	4.5461	1.8809	6.4270	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0582	0.0365	0.5097	1.3800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		139.4667	139.4667	4.1800e-003	3.6800e-003	140.6693
Total	0.0582	0.0365	0.5097	1.3800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		139.4667	139.4667	4.1800e-003	3.6800e-003	140.6693

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	9.2036	1.9853	11.1889	3.6538	1.8265	5.4803		6,007.0434	6,007.0434	1.9428		6,055.6134

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0647	0.0405	0.5663	1.5300e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		154.9630	154.9630	4.6500e-003	4.0900e-003	156.2992
Total	0.0647	0.0405	0.5663	1.5300e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		154.9630	154.9630	4.6500e-003	4.0900e-003	156.2992

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	4.1416	1.9853	6.1270	1.6442	1.8265	3.4707	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0647	0.0405	0.5663	1.5300e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		154.9630	154.9630	4.6500e-003	4.0900e-003	156.2992
Total	0.0647	0.0405	0.5663	1.5300e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		154.9630	154.9630	4.6500e-003	4.0900e-003	156.2992

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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	0.3611	7.1202	2.0357	0.0244	0.7726	0.1174	0.8900	0.2225	0.1123	0.3348		2,599.2420	2,599.2420	0.0441	0.3894	2,716.3823
Worker	0.9471	0.5934	8.2967	0.0224	2.4069	0.0134	2.4204	0.6384	0.0124	0.6508		2,270.2079	2,270.2079	0.0681	0.0600	2,289.7838
Total	1.3082	7.7136	10.3324	0.0468	3.1795	0.1309	3.3104	0.8609	0.1247	0.9856		4,869.4499	4,869.4499	0.1122	0.4494	5,006.1661

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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					

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

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	0.3611	7.1202	2.0357	0.0244	0.7726	0.1174	0.8900	0.2225	0.1123	0.3348		2,599.2420	2,599.2420	0.0441	0.3894	2,716.3823
Worker	0.9471	0.5934	8.2967	0.0224	2.4069	0.0134	2.4204	0.6384	0.0124	0.6508		2,270.2079	2,270.2079	0.0681	0.0600	2,289.7838
Total	1.3082	7.7136	10.3324	0.0468	3.1795	0.1309	3.3104	0.8609	0.1247	0.9856		4,869.4499	4,869.4499	0.1122	0.4494	5,006.1661

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	0.2344	6.0275	1.7247	0.0238	0.7726	0.0633	0.8359	0.2225	0.0606	0.2830		2,536.5562	2,536.5562	0.0384	0.3800	2,650.7539

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

Worker	0.8770	0.5231	7.6159	0.0217	2.4069	0.0127	2.4196	0.6384	0.0117	0.6501		2,210.8090	2,210.8090	0.0613	0.0554	2,228.8411
Total	1.1114	6.5506	9.3406	0.0455	3.1795	0.0761	3.2556	0.8609	0.0723	0.9332		4,747.3652	4,747.3652	0.0997	0.4354	4,879.5951

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	0.2344	6.0275	1.7247	0.0238	0.7726	0.0633	0.8359	0.2225	0.0606	0.2830		2,536.5562	2,536.5562	0.0384	0.3800	2,650.7539
Worker	0.8770	0.5231	7.6159	0.0217	2.4069	0.0127	2.4196	0.6384	0.0117	0.6501		2,210.8090	2,210.8090	0.0613	0.0554	2,228.8411
Total	1.1114	6.5506	9.3406	0.0455	3.1795	0.0761	3.2556	0.8609	0.0723	0.9332		4,747.3652	4,747.3652	0.0997	0.4354	4,879.5951

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 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					
Archit. Coating	32.8187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	33.0233	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.1766	0.1053	1.5336	4.3800e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		445.1800	445.1800	0.0123	0.0112	448.8110
Total	0.1766	0.1053	1.5336	4.3800e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		445.1800	445.1800	0.0123	0.0112	448.8110

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	32.8187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	33.0233	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.1766	0.1053	1.5336	4.3800e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		445.1800	445.1800	0.0123	0.0112	448.8110
Total	0.1766	0.1053	1.5336	4.3800e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		445.1800	445.1800	0.0123	0.0112	448.8110

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	2.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1377	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0449	0.0268	0.3899	1.1100e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		113.1814	113.1814	3.1400e-003	2.8300e-003	114.1045
Total	0.0449	0.0268	0.3899	1.1100e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		113.1814	113.1814	3.1400e-003	2.8300e-003	114.1045

Mitigated Construction On-Site

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	2.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1377	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0449	0.0268	0.3899	1.1100e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		113.1814	113.1814	3.1400e-003	2.8300e-003	114.1045
Total	0.0449	0.0268	0.3899	1.1100e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		113.1814	113.1814	3.1400e-003	2.8300e-003	114.1045

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.6262	9.2236	68.9229	0.1565	15.3305	0.1321	15.4626	4.0826	0.1237	4.2062		16,011.698	16,011.698	0.8643	0.7318	16,251.365
Unmitigated	7.6262	9.2236	68.9229	0.1565	15.3305	0.1321	15.4626	4.0826	0.1237	4.2062		16,011.698	16,011.698	0.8643	0.7318	16,251.365

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,494.21	2,494.21	2494.21	7,281,880	7,281,880
Parking Lot	0.00	0.00	0.00		
Total	2,494.21	2,494.21	2,494.21	7,281,880	7,281,880

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 Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	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
General Heavy Industry	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519
Parking Lot	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519

5.0 Energy Detail

Historical Energy Use: N

25550 Clawiter Road Industrial Project - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
NaturalGas Unmitigated	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

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 Heavy Industry	26071.1	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
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		0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

Mitigated

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	26.0711	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
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		0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

6.0 Area Detail**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	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Unmitigated	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

6.2 Area by SubCategory**Unmitigated**

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0111	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Total	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

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	1.1420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0111	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Total	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

7.0 Water Detail

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	4	50	2100	0.73	Diesel
Emergency Generator	1	4	50	800	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968

25550 Clawiter Road Industrial Project - Alameda County, Summer

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

Total	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
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11.0 Vegetation

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**25550 Clawiter Road Industrial Project**

Alameda County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	387.30	1000sqft	8.89	387,300.00	0
Parking Lot	775.00	Space	11.65	310,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Land Use - two industrial buildings, 232,653 and 154,618 square feet

Construction Phase - Schedule provided by client

Off-road Equipment - Building construction duration takes approximately half the default estimated duration. Doubled CalEEMod default equipment quantities.

Architectural Coating - BAAQMD Rule 8-3

Vehicle Trips - Revised to 6.44 trips/ksf to match VMT Impact Memo

Water And Wastewater - Added Estimated Landscape Water Use from Irrigation Hydrozone Plan (11/30/2020)

Construction Off-road Equipment Mitigation - Standard site watering

Stationary Sources - Emergency Generators and Fire Pumps EF - Off-Road Compression - Ignition Diesel Engine Standards (Tier 4 for generators after 2015+)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstructionPhase	NumDays	10.00	38.00
tblConstructionPhase	NumDays	35.00	41.00
tblConstructionPhase	NumDays	370.00	134.00
tblConstructionPhase	NumDays	20.00	71.00
tblConstructionPhase	NumDays	20.00	15.00
tblLandUse	LotAcreage	6.97	11.65
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	6.42	6.44
tblVehicleTrips	SU_TR	5.09	6.44
tblVehicleTrips	WD_TR	3.93	6.44
tblWater	OutdoorWaterUseRate	0.00	1,634,685.00

2.0 Emissions Summary**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
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25550 Clawiter Road Industrial Project - Alameda County, Winter

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

Year	lb/day										lb/day					
2021	4.2565	46.4502	31.4177	0.0721	19.8049	2.0453	21.8502	10.1417	1.8817	12.0233	0.0000	7,259.8032	7,259.8032	1.9481	0.4593	7,415.1013
2022	39.2107	35.3258	43.6708	0.1018	3.7874	1.5381	5.3255	1.0221	1.4408	2.4629	0.0000	10,151.5649	10,151.5649	1.4697	0.4608	10,325.6262
Maximum	39.2107	46.4502	43.6708	0.1018	19.8049	2.0453	21.8502	10.1417	1.8817	12.0233	0.0000	10,151.5649	10,151.5649	1.9481	0.4608	10,325.6262

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					
2021	4.2565	46.4502	31.4177	0.0721	8.9935	2.0453	11.0388	4.5853	1.8817	6.4670	0.0000	7,259.8032	7,259.8032	1.9481	0.4593	7,415.1013
2022	39.2107	35.3258	43.6708	0.1018	3.7874	1.5381	5.3255	1.0221	1.4408	2.4629	0.0000	10,151.5649	10,151.5649	1.4697	0.4608	10,325.6262
Maximum	39.2107	46.4502	43.6708	0.1018	8.9935	2.0453	11.0388	4.5853	1.8817	6.4670	0.0000	10,151.5649	10,151.5649	1.9481	0.4608	10,325.6262

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.83	0.00	39.78	49.77	0.00	38.36	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Energy	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
Mobile	6.9554	10.5404	72.3437	0.1477	15.3305	0.1322	15.4627	4.0826	0.1238	4.2063		15,109.4148	15,109.4148	0.9753	0.7988	15,371.8264
Stationary	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
Total	35.8240	22.4318	123.1483	0.2545	15.3305	0.7003	16.0307	4.0826	0.6918	4.7744		27,915.2243	27,915.2243	2.4001	0.8550	28,230.0124

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	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Energy	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
Mobile	6.9554	10.5404	72.3437	0.1477	15.3305	0.1322	15.4627	4.0826	0.1238	4.2063		15,109.4148	15,109.4148	0.9753	0.7988	15,371.8264
Stationary	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
Total	35.8240	22.4318	123.1483	0.2545	15.3305	0.7003	16.0307	4.0826	0.6918	4.7744		27,915.2243	27,915.2243	2.4001	0.8550	28,230.0124

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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25550 Clawiter Road Industrial Project - Alameda County, Winter

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

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
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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	8/2/2021	9/22/2021	5	38	
2	Grading	Grading	9/23/2021	11/18/2021	5	41	
3	Building Construction	Building Construction	11/19/2021	5/25/2022	5	134	
4	Architectural Coating	Architectural Coating	2/16/2022	5/25/2022	5	71	
5	Paving	Paving	3/11/2022	3/31/2022	5	15	

Acres of Grading (Site Preparation Phase): 57**Acres of Grading (Grading Phase): 123****Acres of Paving: 11.65****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,950; Non-Residential Outdoor: 193,650; Striped Parking Area: 18,600****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

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

Total	3.8882	40.4971	21.1543	0.0380	19.6570	2.0445	21.7015	10.1025	1.8809	11.9834		3,685.6569	3,685.6569	1.1920		3,715.4573
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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	0.0588	0.0453	0.4854	1.2800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		129.4104	129.4104	4.7400e-003	4.2700e-003	130.8000
Total	0.0588	0.0453	0.4854	1.2800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		129.4104	129.4104	4.7400e-003	4.2700e-003	130.8000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	8.8457	2.0445	10.8901	4.5461	1.8809	6.4270	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0588	0.0453	0.4854	1.2800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		129.4104	129.4104	4.7400e-003	4.2700e-003	130.8000
Total	0.0588	0.0453	0.4854	1.2800e-003	0.1479	8.3000e-004	0.1487	0.0392	7.6000e-004	0.0400		129.4104	129.4104	4.7400e-003	4.2700e-003	130.8000

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	9.2036	1.9853	11.1889	3.6538	1.8265	5.4803		6,007.0434	6,007.0434	1.9428		6,055.6134

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0653	0.0503	0.5393	1.4200e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		143.7893	143.7893	5.2600e-003	4.7400e-003	145.3333
Total	0.0653	0.0503	0.5393	1.4200e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		143.7893	143.7893	5.2600e-003	4.7400e-003	145.3333

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	4.1416	1.9853	6.1270	1.6442	1.8265	3.4707	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.0653	0.0503	0.5393	1.4200e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		143.7893	143.7893	5.2600e-003	4.7400e-003	145.3333
Total	0.0653	0.0503	0.5393	1.4200e-003	0.1643	9.2000e-004	0.1652	0.0436	8.5000e-004	0.0444		143.7893	143.7893	5.2600e-003	4.7400e-003	145.3333

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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	0.3580	7.5099	2.1009	0.0244	0.7726	0.1177	0.8902	0.2225	0.1126	0.3350		2,599.9255	2,599.9255	0.0438	0.3899	2,717.2041
Worker	0.9568	0.7374	7.9005	0.0208	2.4069	0.0134	2.4204	0.6384	0.0124	0.6508		2,106.5138	2,106.5138	0.0771	0.0694	2,129.1330
Total	1.3148	8.2473	10.0014	0.0452	3.1795	0.1311	3.3106	0.8609	0.1249	0.9858		4,706.4393	4,706.4393	0.1209	0.4593	4,846.3371

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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					

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

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	0.3580	7.5099	2.1009	0.0244	0.7726	0.1177	0.8902	0.2225	0.1126	0.3350		2,599.9255	2,599.9255	0.0438	0.3899	2,717.2041
Worker	0.9568	0.7374	7.9005	0.0208	2.4069	0.0134	2.4204	0.6384	0.0124	0.6508		2,106.5138	2,106.5138	0.0771	0.0694	2,129.1330
Total	1.3148	8.2473	10.0014	0.0452	3.1795	0.1311	3.3106	0.8609	0.1249	0.9858		4,706.4393	4,706.4393	0.1209	0.4593	4,846.3371

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	0.2304	6.3629	1.7857	0.0238	0.7726	0.0635	0.8361	0.2225	0.0607	0.2832		2,538.0406	2,538.0406	0.0382	0.3806	2,652.3999

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

Worker	0.8886	0.6498	7.2872	0.0202	2.4069	0.0127	2.4196	0.6384	0.0117	0.6501		2,051.8641	2,051.8641	0.0697	0.0641	2,072.6976
Total	1.1191	7.0127	9.0729	0.0440	3.1795	0.0762	3.2557	0.8609	0.0725	0.9333		4,589.9047	4,589.9047	0.1078	0.4446	4,725.0975

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	0.2304	6.3629	1.7857	0.0238	0.7726	0.0635	0.8361	0.2225	0.0607	0.2832		2,538.0406	2,538.0406	0.0382	0.3806	2,652.3999
Worker	0.8886	0.6498	7.2872	0.0202	2.4069	0.0127	2.4196	0.6384	0.0117	0.6501		2,051.8641	2,051.8641	0.0697	0.0641	2,072.6976
Total	1.1191	7.0127	9.0729	0.0440	3.1795	0.0762	3.2557	0.8609	0.0725	0.9333		4,589.9047	4,589.9047	0.1078	0.4446	4,725.0975

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 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					
Archit. Coating	32.8187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	33.0233	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.1789	0.1308	1.4674	4.0600e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		413.1740	413.1740	0.0140	0.0129	417.3692
Total	0.1789	0.1308	1.4674	4.0600e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		413.1740	413.1740	0.0140	0.0129	417.3692

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	32.8187					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	33.0233	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.1789	0.1308	1.4674	4.0600e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		413.1740	413.1740	0.0140	0.0129	417.3692
Total	0.1789	0.1308	1.4674	4.0600e-003	0.4847	2.5600e-003	0.4872	0.1286	2.3600e-003	0.1309		413.1740	413.1740	0.0140	0.0129	417.3692

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	2.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1377	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0455	0.0333	0.3731	1.0300e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		105.0442	105.0442	3.5700e-003	3.2800e-003	106.1108
Total	0.0455	0.0333	0.3731	1.0300e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		105.0442	105.0442	3.5700e-003	3.2800e-003	106.1108

Mitigated Construction On-Site

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	2.0349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.1377	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0455	0.0333	0.3731	1.0300e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		105.0442	105.0442	3.5700e-003	3.2800e-003	106.1108
Total	0.0455	0.0333	0.3731	1.0300e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		105.0442	105.0442	3.5700e-003	3.2800e-003	106.1108

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.9554	10.5404	72.3437	0.1477	15.3305	0.1322	15.4627	4.0826	0.1238	4.2063		15,109.414	15,109.414	0.9753	0.7988	15,371.826
Unmitigated	6.9554	10.5404	72.3437	0.1477	15.3305	0.1322	15.4627	4.0826	0.1238	4.2063		15,109.414	15,109.414	0.9753	0.7988	15,371.826

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,494.21	2,494.21	2494.21	7,281,880	7,281,880
Parking Lot	0.00	0.00	0.00		
Total	2,494.21	2,494.21	2,494.21	7,281,880	7,281,880

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 Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	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
General Heavy Industry	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519
Parking Lot	0.567723	0.056525	0.181671	0.112876	0.021280	0.005063	0.013338	0.012650	0.000820	0.000591	0.024621	0.000324	0.002519

5.0 Energy Detail

Historical Energy Use: N

25550 Clawiter Road Industrial Project - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
NaturalGas Unmitigated	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

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 Heavy Industry	26071.1	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
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		0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

Mitigated

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	26.0711	0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181
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		0.2812	2.5560	2.1470	0.0153		0.1943	0.1943		0.1943	0.1943		3,067.1913	3,067.1913	0.0588	0.0562	3,085.4181

6.0 Area Detail**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	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Unmitigated	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

6.2 Area by SubCategory**Unmitigated**

25550 Clawiter Road Industrial Project - Alameda County, 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
SubCategory	lb/day										lb/day					
Architectural Coating	1.1420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0111	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Total	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

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	1.1420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0111	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712
Total	9.5511	1.0900e-003	0.1189	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2544	0.2544	6.7000e-004		0.2712

7.0 Water Detail

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	4	50	2100	0.73	Diesel
Emergency Generator	1	4	50	800	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968

25550 Clawiter Road Industrial Project - Alameda County, Winter

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

Total	19.0364	9.3344	48.5387	0.0915		0.3734	0.3734		0.3734	0.3734		9,738.3638	9,738.3638	1.3653		9,772.4968
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11.0 Vegetation



Step 1:	
Plant Name	25550 Clawiter Industrial Development
Plant No.	2,100 & 800 HP Emergency Diesel Generators

Step 4: Specify Source Type	
Does facility have only diesel backup generators?	yes
Is this analysis for a gas station?	no

Note: Default generic distance multiplier used if source is not a generator or gas station.

Step 2: Estimate Distance	
What is the distance (m) from the facility boundary to the MEI?	300

Step 5: Read Estimates	
Total Cancer Risk	0.718
Total Chronic Hazard	0.000
Total PM2.5 Concentration	0.001

per 1,000,000
µg/m³

Step 3: Enter Emissions Data	
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Chemical Name	CAS No. (dashes removed)	Rate (lb/day)	Risk (# / 1,000,000)	Hazard (index)	Concentration (µg/m3)
Fine Particulate Matter (PM2.5)		1.28E-02			0.02
1,1,1-Trichloroethane	71556	0.00E+00			
1,1,2,2-Tetrachloroethane	79345	0.00E+00			
1,1,2-Trichloroethane	79005	0.00E+00			
1,1-Dichloroethane	75343	0.00E+00			
1,1-Dichloroethylene	75354	0.00E+00			
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268879	0.00E+00			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020	0.00E+00			
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822469	0.00E+00			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	0.00E+00			
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	0.00E+00			
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227286	0.00E+00			
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	0.00E+00			
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857	0.00E+00			
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	0.00E+00			
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743	0.00E+00			
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	0.00E+00			
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	0.00E+00			
1,2,3,7,8-Pentachlorodibenzofuran	57117416	0.00E+00			
1,2-Dibromo-3-chloropropane	96128	0.00E+00			
1,2-Dibromoethane	106934	0.00E+00			
1,2-Dichloroethane	107062	0.00E+00			
1,2-Epoxybutane	106887	0.00E+00			
1,3-Butadiene	106990	0.00E+00			
1,3-Propane sultone	1120714	0.00E+00			
1,4-Dichlorobenzene	106467	0.00E+00			
1,4-Dioxane	123911	0.00E+00			
1,6-Dinitropyrene	42397648	0.00E+00			
1,8-Dinitropyrene	42397659	0.00E+00			
1-Nitropyrene	5522430	0.00E+00			
2',3',4',5'-PeCB	65510443	0.00E+00			
2,3',4',5',5'-HxCB	52663726	0.00E+00			
2,3',4',5'-PeCB	31508006	0.00E+00			
2,3,3',4',4',5'-HxCB	69782907	0.00E+00			
2,3,3',4',4',5'-HpCB	39635319	0.00E+00			
2,3,3',4',4',5'-HxCB	38380084	0.00E+00			
2,3,3',4',4'-PeCB	32598144	0.00E+00			
2,3,4',5'-PeCB	74472370	0.00E+00			
2,3,4,6,7,8-hexachlorodibenzofuran	60851345	0.00E+00			
2,3,4,7,8-Pentachlorodibenzofuran	57117314	0.00E+00			
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compou	1746016	0.00E+00			
2,3,7,8-Tetrachlorodibenzofuran	51207319	0.00E+00			
2,4,6-Trichlorophenol	88062	0.00E+00			
2,4-Diaminoanisol	615054	0.00E+00			
2,4-Diaminotoluene	95807	0.00E+00			
2,4-Dinitrotoluene	121142	0.00E+00			
2-Aminoanthraquinone	117793	0.00E+00			
2-Nitrofluorene	607578	0.00E+00			
3,3',4',4',5,5'-HxCB	32774166	0.00E+00			
3,3',4',4',5'-PeCB	57465288	0.00E+00			
3,3',4',4'-TCB	32598133	0.00E+00			
3,3-Dichlorobenzidine	91941	0.00E+00			
3,4,4',5'-TCB	70362504	0.00E+00			
3-Methylcholanthrene	56495	0.00E+00			
4-Methylene bis(2-chloroaniline)	101144	0.00E+00			
4,4-Methylenedianiline	101779	0.00E+00			
4-Chloro-ortho-phenylenediamine	95830	0.00E+00			
4-Dimethylaminoazobenzene	60117	0.00E+00			
4-Nitropyrene	57835924	0.00E+00			
5-Methylchrysene	3697243	0.00E+00			
5-Nitroacenaphthene	602879	0.00E+00			
6-Nitrochrysene	7496028	0.00E+00			
7,12-Dimethylbenz(a)anthracene	57976	0.00E+00			
7H-dibenzo(c,g)carbazole	194592	0.00E+00			
Acetaldehyde	75070	0.00E+00			
Acetamide	60355	0.00E+00			
Acrolein	107028	0.00E+00			
Acrylamide	79061	0.00E+00			
Acrylic Acid	79107	0.00E+00			
Acrylonitrile	107131	0.00E+00			
Allyl chloride	107051	0.00E+00			

Ammonia	7664417	0.00E+00			
Aniline	62533	0.00E+00			
Arsenic	7440382	0.00E+00			
Arsine	7784421	0.00E+00			
Asbestos [1/(100 PCM fibers/m^3)]^-1	1332214	0.00E+00			
Benz(a)anthracene	56553	0.00E+00			
Benzene	71432	0.00E+00			
Benidine	92875	0.00E+00			
Benzo(a)pyrene	50328	0.00E+00			
Benzo(b)fluoranthene	205992	0.00E+00			
Benzo(j)fluoranthene	205823	0.00E+00			
Benzo(k)fluoranthene	207089	0.00E+00			
Benzyl Chloride	100447	0.00E+00			
Beryllium	7440417	0.00E+00			
Bis(2-chloroethyl) Ether	111444	0.00E+00			
Bis(2-chloromethyl) Ether	542881	0.00E+00			
Cadmium	7440439	0.00E+00			
Caprolactam	105602	0.00E+00			
Carbon Disulfide	75150	0.00E+00			
Carbon Monoxide	630080	0.00E+00			
Carbon Tetrachloride	56235	0.00E+00			
Carbonyl Sulfide	463581	0.00E+00			
Chlorinated paraffins (Avg. chain length C12; approx. 60	108171262	0.00E+00			
Chlorine	7782505	0.00E+00			
Chlorine Dioxide	10049044	0.00E+00			
Chlorite	7758192	0.00E+00			
Chlorobenzene	108907	0.00E+00			
Chlorodibromomethane	124481	0.00E+00			
Chloroethane (Ethyl Chloride)	75003	0.00E+00			
Chloroform	67663	0.00E+00			
Chloropicrin	76062	0.00E+00			
Chromic Trioxide	1333820	0.00E+00			
Chromium-hexavalent	18540299	0.00E+00			
Barium chromate2	10294403	0.00E+00			
Calcium chromate2	13765190	0.00E+00			
Lead chromate2	7758976	0.00E+00			
Sodium dichromate2	10588019	0.00E+00			
Strontium chromate2	7789062	0.00E+00			
CHROMIC TRIOXIDE (as chromic acid mist)	1333820	0.00E+00			
Chrysene	218019	0.00E+00			
Copper	7440508	0.00E+00			
Copper and Copper Compounds	7440508	0.00E+00			
Cresol Mixtures	1319773	0.00E+00			
Cupferron	135206	0.00E+00			
Cyanide	57125	0.00E+00			
Di[2-ethylhexyl]phthalate	117817	0.00E+00			
Dibenz(a-h)acridine	226368	0.00E+00			
Dibenz(a-h)anthracene	53703	0.00E+00			
Dibenz(a-j)acridine	224420	0.00E+00			
Dibenzo(a-e)pyrene	192654	0.00E+00			
Dibenzo(a-h)pyrene	189640	0.00E+00			
Dibenzo(a-l)pyrene	189559	0.00E+00			
Dibenzo(a-l)pyrene	191300	0.00E+00			
Diesel Exhaust Particulate	85105	1.28E-02	1.80E+01	4.83E-03	
Diethanolamine	111422	0.00E+00			
Dimethylformamide	68122	0.00E+00			
Direct Black 38 (Technical Grade)	1937377	0.00E+00			
Direct Blue 6 (Technical Grade)	2602462	0.00E+00			
Direct Brown 95 (Technical Grade)	16071866	0.00E+00			
Epichlorohydrin	106898	0.00E+00			
Ethylbenzene	100414	0.00E+00			
Ethylene Glycol	107211	0.00E+00			
Ethylene Glycol Monobutyl Ether	111762	0.00E+00			
Ethylene Glycol Monoethyl Ether	110805	0.00E+00			
Ethylene Glycol Monoethyl Ether Acetate	111159	0.00E+00			
Ethylene Glycol Monomethyl Ether	109864	0.00E+00			
Ethylene Glycol Monomethyl Ether Acetate	110496	0.00E+00			
Ethylene Oxide	75218	0.00E+00			
Ethylene Thiourea	96457	0.00E+00			
Fluorides	1101	0.00E+00			
Formaldehyde (gas)	50000	0.00E+00			
Glutaraldehyde	111308	0.00E+00			
Hexachlorobenzene	118741	0.00E+00			
Hexachlorocyclohexane (Technical Grade)	608731	0.00E+00			
Hexachlorocyclohexane- Alpha Isomer	319846	0.00E+00			
Hexachlorocyclohexane- Beta Isomer	319857	0.00E+00			
Hexachlorocyclohexane- Gamma Isomer	58899	0.00E+00			
Hydrazine	302012	0.00E+00			
		0.00E+00			
Hydrogen Chloride	7647010	0.00E+00			
Hydrogen Cyanide	74908	0.00E+00			
Hydrogen Fluoride	7664393	0.00E+00			
Hydrogen Selenide	7783075	0.00E+00			
Hydrogen Sulfide	7783064	0.00E+00			
Indeno(1-2-3-c-d)pyrene	193395	0.00E+00			
Isophorone	78591	0.00E+00			
Isopropyl Alcohol	67630	0.00E+00			
Lead Acetate	301042	0.00E+00			
Lead and Lead Compounds	7439921	0.00E+00			

Lead Phosphate	7446277	0.00E+00
Lead Subacetate	1335326	0.00E+00
m-CRESOL	108394	0.00E+00
m-XYLENE	108383	0.00E+00
Maleic Anhydride	108316	0.00E+00
Manganese & Manganese Compounds	7439965	0.00E+00
Mercury (Inorganic)	7439976	0.00E+00
Mercuric chloride	7487947	0.00E+00
Methanol	67561	0.00E+00
Methyl Bromide	74839	0.00E+00
Methyl Ethyl Ketone	78933	0.00E+00
Methyl Isocyanate	624839	0.00E+00
Methyl Tertiary Butyl Ether	1634044	0.00E+00
Methylene Chloride (Dichloromethane)	75092	0.00E+00
Methylene Diphenyl Isocyanate (MDI)	101688	0.00E+00
Michlers Ketone	90948	0.00E+00
n-Hexane	110543	0.00E+00
n-Nitroso-n-methylethylamine	10595956	0.00E+00
n-Nitrosodi-n-Butylamine	924163	0.00E+00
n-Nitrosodi-n-Propylamine	621647	0.00E+00
n-Nitrosodiethylamine	55185	0.00E+00
n-Nitrosodimethylamine	62759	0.00E+00
n-Nitrosodiphenylamine	86306	0.00E+00
n-Nitrosomorpholine	59892	0.00E+00
n-Nitrosopiperidine	100754	0.00E+00
n-Nitrosopyrrolidine	930552	0.00E+00
Naphthalene	91203	0.00E+00
Nickel and Nickel Compounds	7440020	0.00E+00
Nickel acetate	373024	0.00E+00
Nickel carbonate	3333673	0.00E+00
Nickel carbonyl	13463393	0.00E+00
Nickel hydroxide	12054487	0.00E+00
Nickelocene	1271289	0.00E+00
Nickel Oxide	1313991	0.00E+00
Nickel Refinery Dust	1146	0.00E+00
Nickel Subsulfide	12035722	0.00E+00
Nitric Acid	7697372	0.00E+00
Nitrogen Dioxide	10102440	0.00E+00
o-CRESOL	95487	0.00E+00
o-XYLENE	95476	0.00E+00
Oleum	8014957	0.00E+00
Ozone	10028156	0.00E+00
p-Chloro-o-toluidine	95692	0.00E+00
p-Cresidine	120718	0.00E+00
p-CRESOL	106445	0.00E+00
p-Nitrosodiphenylamine	156105	0.00E+00
p-XYLENE	106423	0.00E+00
Pentachlorophenol	87865	0.00E+00
Perchloroethylene	127184	0.00E+00
Phenol	108952	0.00E+00
Phosgene	75445	0.00E+00
Phosphine	7803512	0.00E+00
Phosphoric Acid	7664382	0.00E+00
Phthalic Anhydride	85449	0.00E+00
Polychlorinated Biphenyls	1336363	0.00E+00
Potassium Bromate	7758012	0.00E+00
Propylene	115071	0.00E+00
Propylene Glycol Monomethyl Ether	107982	0.00E+00
Propylene oxide	75569	0.00E+00
Selenium	7782492	0.00E+00
Selenium sulfide	7446346	0.00E+00
Silica (crystalline, respirable)	7631869	0.00E+00
Sodium hydroxide	1310732	0.00E+00
Styrene	100425	0.00E+00
Sulfates	9960	0.00E+00
Sulfur Dioxide	7446095	0.00E+00
Sulfuric Acid	7664939	0.00E+00
Sulfur Trioxide	7446719	0.00E+00
Tertiary-butyl acetate	540885	0.00E+00
Tetrachloroethylene	127184	0.00E+00
Thioacetamide	62555	0.00E+00
Toluene	108883	0.00E+00
Toluene Diisocyanates	26471625	0.00E+00
Toluene Diisocyanates (2,4 and 2, 6)	584849	0.00E+00
Toluene Diisocyanates (2,4 and 2, 6)	91087	0.00E+00
Trichloroethylene	79016	0.00E+00
Triethylamine	121448	0.00E+00
Urethane	51796	0.00E+00
Vanadium pentoxide	1314621	0.00E+00
Vinyl acetate	108054	0.00E+00
Vinyl chloride	75014	0.00E+00
Xylenes (technical mixture of m, o, p-isomers)	1330207	0.00E+00
Vanadium	7440622	0.00E+00

TOTAL UNADJUSTED Risk Values 17.959 0.005 0.024