

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**Pinell Street Development Project  
Sacramento Metropolitan AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.85	1000sqft	0.13	5,852.00	0
Parking Lot	0.82	Acre	0.82	35,719.20	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2023
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - 5852 sq ft building and associated parking lot
- Construction Phase -
- Off-road Equipment - Equipment amount suitable for site size.
- Off-road Equipment -
- Operational Off-Road Equipment - Applicant provided information

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20

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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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**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
Year	lb/day										lb/day					
2022	13.0516	12.0193	7.7696	0.0147	5.3728	0.5176	5.8904	2.5847	0.4762	3.0609	0.0000	1,422.904 2	1,422.904 2	0.4432	0.0249	1,434.433 0
<b>Maximum</b>	<b>13.0516</b>	<b>12.0193</b>	<b>7.7696</b>	<b>0.0147</b>	<b>5.3728</b>	<b>0.5176</b>	<b>5.8904</b>	<b>2.5847</b>	<b>0.4762</b>	<b>3.0609</b>	<b>0.0000</b>	<b>1,422.904 2</b>	<b>1,422.904 2</b>	<b>0.4432</b>	<b>0.0249</b>	<b>1,434.433 0</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	13.0516	12.0193	7.7696	0.0147	5.3728	0.5176	5.8904	2.5847	0.4762	3.0609	0.0000	1,422.904 2	1,422.904 2	0.4432	0.0249	1,434.433 0
<b>Maximum</b>	<b>13.0516</b>	<b>12.0193</b>	<b>7.7696</b>	<b>0.0147</b>	<b>5.3728</b>	<b>0.5176</b>	<b>5.8904</b>	<b>2.5847</b>	<b>0.4762</b>	<b>3.0609</b>	<b>0.0000</b>	<b>1,422.904 2</b>	<b>1,422.904 2</b>	<b>0.4432</b>	<b>0.0249</b>	<b>1,434.433 0</b>

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1555	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916
Mobile	0.1036	0.1064	0.8690	1.7800e-003	0.1707	1.3300e-003	0.1720	0.0455	1.2400e-003	0.0468		181.0412	181.0412	0.0110	8.1000e-003	183.7324
Offroad	0.0515	0.4822	0.5753	7.7000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	74.3855	74.3855	0.0241		74.9869
<b>Total</b>	<b>0.3168</b>	<b>0.6446</b>	<b>1.4919</b>	<b>2.8900e-003</b>	<b>0.1707</b>	<b>0.0354</b>	<b>0.2061</b>	<b>0.0455</b>	<b>0.0329</b>	<b>0.0784</b>	<b>0.0000</b>	<b>322.5210</b>	<b>322.5210</b>	<b>0.0364</b>	<b>9.3300e-003</b>	<b>326.2125</b>

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

**2.2 Overall Operational**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1555	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916
Mobile	0.1036	0.1064	0.8690	1.7800e-003	0.1707	1.3300e-003	0.1720	0.0455	1.2400e-003	0.0468		181.0412	181.0412	0.0110	8.1000e-003	183.7324
Offroad	0.0515	0.4822	0.5753	7.7000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	74.3855	74.3855	0.0241		74.9869
<b>Total</b>	<b>0.3168</b>	<b>0.6446</b>	<b>1.4919</b>	<b>2.8900e-003</b>	<b>0.1707</b>	<b>0.0354</b>	<b>0.2061</b>	<b>0.0455</b>	<b>0.0329</b>	<b>0.0784</b>	<b>0.0000</b>	<b>322.5210</b>	<b>322.5210</b>	<b>0.0364</b>	<b>9.3300e-003</b>	<b>326.2125</b>

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

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/15/2022	4/15/2022	5	1	
2	Grading	Grading	4/16/2022	4/19/2022	5	2	
3	Building Construction	Building Construction	4/20/2022	9/6/2022	5	100	
4	Paving	Paving	9/7/2022	9/13/2022	5	5	

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5	Architectural Coating	Architectural Coating	9/14/2022	9/20/2022	5	5
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**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.82**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,778; Non-Residential Outdoor: 2,926; Striped Parking Area: 2,143 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

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Building Construction	5	17.00	7.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

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**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0181	9.1500e-003	0.1477	3.6000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.3027	36.3027	1.0800e-003	9.4000e-004	36.6112
<b>Total</b>	<b>0.0181</b>	<b>9.1500e-003</b>	<b>0.1477</b>	<b>3.6000e-004</b>	<b>0.0380</b>	<b>2.1000e-004</b>	<b>0.0382</b>	<b>0.0101</b>	<b>1.9000e-004</b>	<b>0.0103</b>		<b>36.3027</b>	<b>36.3027</b>	<b>1.0800e-003</b>	<b>9.4000e-004</b>	<b>36.6112</b>

**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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

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**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0181	9.1500e-003	0.1477	3.6000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.3027	36.3027	1.0800e-003	9.4000e-004	36.6112
<b>Total</b>	<b>0.0181</b>	<b>9.1500e-003</b>	<b>0.1477</b>	<b>3.6000e-004</b>	<b>0.0380</b>	<b>2.1000e-004</b>	<b>0.0382</b>	<b>0.0101</b>	<b>1.9000e-004</b>	<b>0.0103</b>		<b>36.3027</b>	<b>36.3027</b>	<b>1.0800e-003</b>	<b>9.4000e-004</b>	<b>36.6112</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.3119</b>	<b>0.5173</b>	<b>5.8292</b>	<b>2.5686</b>	<b>0.4759</b>	<b>3.0445</b>		<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>



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**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0290	0.0146	0.2363	5.7000e-004	0.0609	3.3000e-004	0.0612	0.0161	3.0000e-004	0.0165		58.0844	58.0844	1.7400e-003	1.5100e-003	58.5779
<b>Total</b>	<b>0.0290</b>	<b>0.0146</b>	<b>0.2363</b>	<b>5.7000e-004</b>	<b>0.0609</b>	<b>3.3000e-004</b>	<b>0.0612</b>	<b>0.0161</b>	<b>3.0000e-004</b>	<b>0.0165</b>		<b>58.0844</b>	<b>58.0844</b>	<b>1.7400e-003</b>	<b>1.5100e-003</b>	<b>58.5779</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.3119</b>	<b>0.5173</b>	<b>5.8292</b>	<b>2.5686</b>	<b>0.4759</b>	<b>3.0445</b>	<b>0.0000</b>	<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>

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**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0290	0.0146	0.2363	5.7000e-004	0.0609	3.3000e-004	0.0612	0.0161	3.0000e-004	0.0165		58.0844	58.0844	1.7400e-003	1.5100e-003	58.5779
<b>Total</b>	<b>0.0290</b>	<b>0.0146</b>	<b>0.2363</b>	<b>5.7000e-004</b>	<b>0.0609</b>	<b>3.3000e-004</b>	<b>0.0612</b>	<b>0.0161</b>	<b>3.0000e-004</b>	<b>0.0165</b>		<b>58.0844</b>	<b>58.0844</b>	<b>1.7400e-003</b>	<b>1.5100e-003</b>	<b>58.5779</b>

**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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>		<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0152	0.3813	0.1148	1.3800e-003	0.0422	3.7000e-003	0.0459	0.0121	3.5400e-003	0.0157		148.1334	148.1334	3.8700e-003	0.0217	154.6948
Worker	0.0616	0.0311	0.5021	1.2200e-003	0.1293	7.0000e-004	0.1300	0.0343	6.5000e-004	0.0350		123.4293	123.4293	3.6900e-003	3.2100e-003	124.4781
<b>Total</b>	<b>0.0767</b>	<b>0.4124</b>	<b>0.6169</b>	<b>2.6000e-003</b>	<b>0.1715</b>	<b>4.4000e-003</b>	<b>0.1759</b>	<b>0.0464</b>	<b>4.1900e-003</b>	<b>0.0506</b>		<b>271.5627</b>	<b>271.5627</b>	<b>7.5600e-003</b>	<b>0.0249</b>	<b>279.1729</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>	<b>0.0000</b>	<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.4 Building Construction - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0152	0.3813	0.1148	1.3800e-003	0.0422	3.7000e-003	0.0459	0.0121	3.5400e-003	0.0157		148.1334	148.1334	3.8700e-003	0.0217	154.6948
Worker	0.0616	0.0311	0.5021	1.2200e-003	0.1293	7.0000e-004	0.1300	0.0343	6.5000e-004	0.0350		123.4293	123.4293	3.6900e-003	3.2100e-003	124.4781
<b>Total</b>	<b>0.0767</b>	<b>0.4124</b>	<b>0.6169</b>	<b>2.6000e-003</b>	<b>0.1715</b>	<b>4.4000e-003</b>	<b>0.1759</b>	<b>0.0464</b>	<b>4.1900e-003</b>	<b>0.0506</b>		<b>271.5627</b>	<b>271.5627</b>	<b>7.5600e-003</b>	<b>0.0249</b>	<b>279.1729</b>

**3.5 Paving - 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	0.5147	5.0890	6.3408	9.6700e-003		0.2639	0.2639		0.2436	0.2436		922.1629	922.1629	0.2899		929.4110
Paving	0.4297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9444</b>	<b>5.0890</b>	<b>6.3408</b>	<b>9.6700e-003</b>		<b>0.2639</b>	<b>0.2639</b>		<b>0.2436</b>	<b>0.2436</b>		<b>922.1629</b>	<b>922.1629</b>	<b>0.2899</b>		<b>929.4110</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0362	0.0183	0.2954	7.2000e-004	0.0761	4.1000e-004	0.0765	0.0202	3.8000e-004	0.0206		72.6055	72.6055	2.1700e-003	1.8900e-003	73.2224
<b>Total</b>	<b>0.0362</b>	<b>0.0183</b>	<b>0.2954</b>	<b>7.2000e-004</b>	<b>0.0761</b>	<b>4.1000e-004</b>	<b>0.0765</b>	<b>0.0202</b>	<b>3.8000e-004</b>	<b>0.0206</b>		<b>72.6055</b>	<b>72.6055</b>	<b>2.1700e-003</b>	<b>1.8900e-003</b>	<b>73.2224</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5147	5.0890	6.3408	9.6700e-003		0.2639	0.2639		0.2436	0.2436	0.0000	922.1629	922.1629	0.2899		929.4110
Paving	0.4297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9444</b>	<b>5.0890</b>	<b>6.3408</b>	<b>9.6700e-003</b>		<b>0.2639</b>	<b>0.2639</b>		<b>0.2436</b>	<b>0.2436</b>	<b>0.0000</b>	<b>922.1629</b>	<b>922.1629</b>	<b>0.2899</b>		<b>929.4110</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0362	0.0183	0.2954	7.2000e-004	0.0761	4.1000e-004	0.0765	0.0202	3.8000e-004	0.0206		72.6055	72.6055	2.1700e-003	1.8900e-003	73.2224
<b>Total</b>	<b>0.0362</b>	<b>0.0183</b>	<b>0.2954</b>	<b>7.2000e-004</b>	<b>0.0761</b>	<b>4.1000e-004</b>	<b>0.0765</b>	<b>0.0202</b>	<b>3.8000e-004</b>	<b>0.0206</b>		<b>72.6055</b>	<b>72.6055</b>	<b>2.1700e-003</b>	<b>1.8900e-003</b>	<b>73.2224</b>

**3.6 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	12.8362					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
<b>Total</b>	<b>13.0407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0109	5.4900e-003	0.0886	2.2000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1700e-003		21.7816	21.7816	6.5000e-004	5.7000e-004	21.9667
<b>Total</b>	<b>0.0109</b>	<b>5.4900e-003</b>	<b>0.0886</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.2000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.1000e-004</b>	<b>6.1700e-003</b>		<b>21.7816</b>	<b>21.7816</b>	<b>6.5000e-004</b>	<b>5.7000e-004</b>	<b>21.9667</b>

**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	12.8362					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
<b>Total</b>	<b>13.0407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0109	5.4900e-003	0.0886	2.2000e-004	0.0228	1.2000e-004	0.0229	6.0500e-003	1.1000e-004	6.1700e-003		21.7816	21.7816	6.5000e-004	5.7000e-004	21.9667
<b>Total</b>	<b>0.0109</b>	<b>5.4900e-003</b>	<b>0.0886</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.2000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.1000e-004</b>	<b>6.1700e-003</b>		<b>21.7816</b>	<b>21.7816</b>	<b>6.5000e-004</b>	<b>5.7000e-004</b>	<b>21.9667</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1036	0.1064	0.8690	1.7800e-003	0.1707	1.3300e-003	0.1720	0.0455	1.2400e-003	0.0468		181.0412	181.0412	0.0110	8.1000e-003	183.7324
Unmitigated	0.1036	0.1064	0.8690	1.7800e-003	0.1707	1.3300e-003	0.1720	0.0455	1.2400e-003	0.0468		181.0412	181.0412	0.0110	8.1000e-003	183.7324

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	29.03	11.65	29.26	73,504	73,504
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>29.03</b>	<b>11.65</b>	<b>29.26</b>	<b>73,504</b>	<b>73,504</b>

**4.3 Trip Type Information**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507
Parking Lot	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

**5.0 Energy Detail**

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916
NaturalGas Unmitigated	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	570.289	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.1500e-003</b>	<b>0.0559</b>	<b>0.0470</b>	<b>3.4000e-004</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>67.0929</b>	<b>67.0929</b>	<b>1.2900e-003</b>	<b>1.2300e-003</b>	<b>67.4916</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.570289	6.1500e-003	0.0559	0.0470	3.4000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003		67.0929	67.0929	1.2900e-003	1.2300e-003	67.4916
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.1500e-003</b>	<b>0.0559</b>	<b>0.0470</b>	<b>3.4000e-004</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>		<b>67.0929</b>	<b>67.0929</b>	<b>1.2900e-003</b>	<b>1.2300e-003</b>	<b>67.4916</b>

**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	0.1555	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Unmitigated	0.1555	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1555</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4600e-003</b>	<b>1.4600e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1555</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4600e-003</b>	<b>1.4600e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

Pinell Street Development Project - Sacramento Metropolitan AQMD Air District, Summer

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

**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					
Forklifts	0.0515	0.4822	0.5753	7.7000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	74.3855	74.3855	0.0241		74.9869
<b>Total</b>	<b>0.0515</b>	<b>0.4822</b>	<b>0.5753</b>	<b>7.7000e-004</b>		<b>0.0298</b>	<b>0.0298</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>74.3855</b>	<b>74.3855</b>	<b>0.0241</b>		<b>74.9869</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

**Pinell Street Development Project  
Sacramento Metropolitan AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.85	1000sqft	0.13	5,852.00	0
Parking Lot	0.82	Acre	0.82	35,719.20	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2023
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	357.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -  
 Land Use - 5852 sq ft building and associated parking lot  
 Construction Phase -  
 Off-road Equipment - Equipment amount suitable for site size.  
 Off-road Equipment -  
 Operational Off-Road Equipment - Applicant provided information

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20

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

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
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**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
Year	tons/yr										MT/yr					
2022	0.0742	0.4049	0.4143	7.5000e-004	0.0142	0.0203	0.0345	4.9300e-003	0.0187	0.0237	0.0000	66.5540	66.5540	0.0178	1.1500e-003	67.3408
<b>Maximum</b>	<b>0.0742</b>	<b>0.4049</b>	<b>0.4143</b>	<b>7.5000e-004</b>	<b>0.0142</b>	<b>0.0203</b>	<b>0.0345</b>	<b>4.9300e-003</b>	<b>0.0187</b>	<b>0.0237</b>	<b>0.0000</b>	<b>66.5540</b>	<b>66.5540</b>	<b>0.0178</b>	<b>1.1500e-003</b>	<b>67.3408</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0742	0.4049	0.4143	7.5000e-004	0.0142	0.0203	0.0345	4.9300e-003	0.0187	0.0237	0.0000	66.5540	66.5540	0.0178	1.1500e-003	67.3407
<b>Maximum</b>	<b>0.0742</b>	<b>0.4049</b>	<b>0.4143</b>	<b>7.5000e-004</b>	<b>0.0142</b>	<b>0.0203</b>	<b>0.0345</b>	<b>4.9300e-003</b>	<b>0.0187</b>	<b>0.0237</b>	<b>0.0000</b>	<b>66.5540</b>	<b>66.5540</b>	<b>0.0178</b>	<b>1.1500e-003</b>	<b>67.3407</b>



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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2022	6-30-2022	0.2323	0.2323
2	7-1-2022	9-30-2022	0.2506	0.2506
		Highest	0.2506	0.2506

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0284	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	27.2204	27.2204	1.7000e-003	3.8000e-004	27.3772
Mobile	0.0140	0.0191	0.1321	2.7000e-004	0.0273	2.2000e-004	0.0275	7.2900e-003	2.0000e-004	7.4900e-003	0.0000	25.2686	25.2686	1.7300e-003	1.2700e-003	25.6896
Offroad	6.7000e-003	0.0627	0.0748	1.0000e-004		3.8700e-003	3.8700e-003		3.5600e-003	3.5600e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Waste						0.0000	0.0000		0.0000	0.0000	1.4717	0.0000	1.4717	0.0870	0.0000	3.6460
Water						0.0000	0.0000		0.0000	0.0000	0.4786	1.0945	1.5731	1.7500e-003	1.0500e-003	1.9307
<b>Total</b>	<b>0.0502</b>	<b>0.0920</b>	<b>0.2156</b>	<b>4.3000e-004</b>	<b>0.0273</b>	<b>4.8700e-003</b>	<b>0.0321</b>	<b>7.2900e-003</b>	<b>4.5400e-003</b>	<b>0.0118</b>	<b>1.9503</b>	<b>62.3562</b>	<b>64.3065</b>	<b>0.0950</b>	<b>2.7000e-003</b>	<b>67.4871</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0284	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	27.2204	27.2204	1.7000e-003	3.8000e-004	27.3772
Mobile	0.0140	0.0191	0.1321	2.7000e-004	0.0273	2.2000e-004	0.0275	7.2900e-003	2.0000e-004	7.4900e-003	0.0000	25.2686	25.2686	1.7300e-003	1.2700e-003	25.6896
Offroad	6.7000e-003	0.0627	0.0748	1.0000e-004		3.8700e-003	3.8700e-003		3.5600e-003	3.5600e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Waste						0.0000	0.0000		0.0000	0.0000	1.4717	0.0000	1.4717	0.0870	0.0000	3.6460
Water						0.0000	0.0000		0.0000	0.0000	0.4786	1.0945	1.5731	1.7500e-003	1.0500e-003	1.9307
<b>Total</b>	<b>0.0502</b>	<b>0.0920</b>	<b>0.2156</b>	<b>4.3000e-004</b>	<b>0.0273</b>	<b>4.8700e-003</b>	<b>0.0321</b>	<b>7.2900e-003</b>	<b>4.5400e-003</b>	<b>0.0118</b>	<b>1.9503</b>	<b>62.3562</b>	<b>64.3065</b>	<b>0.0950</b>	<b>2.7000e-003</b>	<b>67.4871</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/15/2022	4/15/2022	5	1	
2	Grading	Grading	4/16/2022	4/19/2022	5	2	

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

3	Building Construction	Building Construction	4/20/2022	9/6/2022	5	100
4	Paving	Paving	9/7/2022	9/13/2022	5	5
5	Architectural Coating	Architectural Coating	9/14/2022	9/20/2022	5	5

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.82**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,778; Non-Residential Outdoor: 2,926; Striped Parking Area: 2,143 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	17.00	7.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>2.9000e-004</b>	<b>3.4700e-003</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0150	0.0150	0.0000	0.0000	0.0152
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0152</b>

**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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>2.9000e-004</b>	<b>3.4700e-003</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0150	0.0150	0.0000	0.0000	0.0152
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0150</b>	<b>0.0150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0152</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0120</b>	<b>5.9400e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>5.2000e-004</b>	<b>5.8300e-003</b>	<b>2.5700e-003</b>	<b>4.8000e-004</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2482</b>

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.0000e-005	2.0000e-005	2.0000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0481	0.0481	0.0000	0.0000	0.0486
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0481</b>	<b>0.0481</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0486</b>

**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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0120</b>	<b>5.9400e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>5.2000e-004</b>	<b>5.8300e-003</b>	<b>2.5700e-003</b>	<b>4.8000e-004</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2482</b>

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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.0000e-005	2.0000e-005	2.0000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0481	0.0481	0.0000	0.0000	0.0486
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0481</b>	<b>0.0481</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0486</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787
<b>Total</b>	<b>0.0343</b>	<b>0.3513</b>	<b>0.3576</b>	<b>5.7000e-004</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0171</b>	<b>0.0171</b>	<b>0.0000</b>	<b>50.0739</b>	<b>50.0739</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4787</b>



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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0201	5.8500e-003	7.0000e-005	2.0500e-003	1.9000e-004	2.2300e-003	5.9000e-004	1.8000e-004	7.7000e-004	0.0000	6.7189	6.7189	1.8000e-004	9.8000e-004	7.0168
Worker	2.6200e-003	1.7000e-003	0.0214	6.0000e-005	6.2400e-003	4.0000e-005	6.2800e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	5.1075	5.1075	1.8000e-004	1.5000e-004	5.1580
<b>Total</b>	<b>3.3700e-003</b>	<b>0.0218</b>	<b>0.0273</b>	<b>1.3000e-004</b>	<b>8.2900e-003</b>	<b>2.3000e-004</b>	<b>8.5100e-003</b>	<b>2.2500e-003</b>	<b>2.1000e-004</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>11.8264</b>	<b>11.8264</b>	<b>3.6000e-004</b>	<b>1.1300e-003</b>	<b>12.1748</b>

**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	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787
<b>Total</b>	<b>0.0343</b>	<b>0.3513</b>	<b>0.3576</b>	<b>5.7000e-004</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0171</b>	<b>0.0171</b>	<b>0.0000</b>	<b>50.0738</b>	<b>50.0738</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4787</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0201	5.8500e-003	7.0000e-005	2.0500e-003	1.9000e-004	2.2300e-003	5.9000e-004	1.8000e-004	7.7000e-004	0.0000	6.7189	6.7189	1.8000e-004	9.8000e-004	7.0168
Worker	2.6200e-003	1.7000e-003	0.0214	6.0000e-005	6.2400e-003	4.0000e-005	6.2800e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	5.1075	5.1075	1.8000e-004	1.5000e-004	5.1580
<b>Total</b>	<b>3.3700e-003</b>	<b>0.0218</b>	<b>0.0273</b>	<b>1.3000e-004</b>	<b>8.2900e-003</b>	<b>2.3000e-004</b>	<b>8.5100e-003</b>	<b>2.2500e-003</b>	<b>2.1000e-004</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>11.8264</b>	<b>11.8264</b>	<b>3.6000e-004</b>	<b>1.1300e-003</b>	<b>12.1748</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2900e-003	0.0127	0.0159	2.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	2.0914	2.0914	6.6000e-004	0.0000	2.1079
Paving	1.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3600e-003</b>	<b>0.0127</b>	<b>0.0159</b>	<b>2.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.0914</b>	<b>2.0914</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.1079</b>

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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1502	0.1502	1.0000e-005	0.0000	0.1517
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1502</b>	<b>0.1502</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1517</b>

**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	1.2900e-003	0.0127	0.0159	2.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	2.0914	2.0914	6.6000e-004	0.0000	2.1079
Paving	1.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3600e-003</b>	<b>0.0127</b>	<b>0.0159</b>	<b>2.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.0914</b>	<b>2.0914</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.1079</b>

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1502	0.1502	1.0000e-005	0.0000	0.1517
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1502</b>	<b>0.1502</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1517</b>

**3.6 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	0.0321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0326</b>	<b>3.5200e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0451	0.0451	0.0000	0.0000	0.0455
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0451</b>	<b>0.0451</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0455</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0326</b>	<b>3.5200e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0451	0.0451	0.0000	0.0000	0.0455
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0451</b>	<b>0.0451</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0455</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0140	0.0191	0.1321	2.7000e-004	0.0273	2.2000e-004	0.0275	7.2900e-003	2.0000e-004	7.4900e-003	0.0000	25.2686	25.2686	1.7300e-003	1.2700e-003	25.6896
Unmitigated	0.0140	0.0191	0.1321	2.7000e-004	0.0273	2.2000e-004	0.0275	7.2900e-003	2.0000e-004	7.4900e-003	0.0000	25.2686	25.2686	1.7300e-003	1.2700e-003	25.6896

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	29.03	11.65	29.26	73,504	73,504
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>29.03</b>	<b>11.65</b>	<b>29.26</b>	<b>73,504</b>	<b>73,504</b>

**4.3 Trip Type Information**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507
Parking Lot	0.538353	0.056973	0.184081	0.133246	0.026575	0.006093	0.013235	0.009306	0.000942	0.000548	0.026135	0.001006	0.003507

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1124	16.1124	1.4900e-003	1.8000e-004	16.2032
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1124	16.1124	1.4900e-003	1.8000e-004	16.2032
NaturalGas Mitigated	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1080	11.1080	2.1000e-004	2.0000e-004	11.1740
NaturalGas Unmitigated	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1080	11.1080	2.1000e-004	2.0000e-004	11.1740



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	208156	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1080	11.1080	2.1000e-004	2.0000e-004	11.1740
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
<b>Total</b>		<b>1.1200e-003</b>	<b>0.0102</b>	<b>8.5700e-003</b>	<b>6.0000e-005</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>11.1080</b>	<b>11.1080</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>11.1740</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	208156	1.1200e-003	0.0102	8.5700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1080	11.1080	2.1000e-004	2.0000e-004	11.1740
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
<b>Total</b>		<b>1.1200e-003</b>	<b>0.0102</b>	<b>8.5700e-003</b>	<b>6.0000e-005</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>11.1080</b>	<b>11.1080</b>	<b>2.1000e-004</b>	<b>2.0000e-004</b>	<b>11.1740</b>

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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 Light Industry	86726.6	14.0824	1.3000e-003	1.6000e-004	14.1618
Parking Lot	12501.7	2.0300	1.9000e-004	2.0000e-005	2.0414
<b>Total</b>		<b>16.1124</b>	<b>1.4900e-003</b>	<b>1.8000e-004</b>	<b>16.2032</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	86726.6	14.0824	1.3000e-003	1.6000e-004	14.1618
Parking Lot	12501.7	2.0300	1.9000e-004	2.0000e-005	2.0414
<b>Total</b>		<b>16.1124</b>	<b>1.4900e-003</b>	<b>1.8000e-004</b>	<b>16.2032</b>

**6.0 Area Detail**

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0284	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Unmitigated	0.0284	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
<b>Total</b>	<b>0.0284</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0252					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
<b>Total</b>	<b>0.0284</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5731	1.7500e-003	1.0500e-003	1.9307
Unmitigated	1.5731	1.7500e-003	1.0500e-003	1.9307

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.35281 / 0	1.5731	1.7500e-003	1.0500e-003	1.9307
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.5731</b>	<b>1.7500e-003</b>	<b>1.0500e-003</b>	<b>1.9307</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.35281 / 0	1.5731	1.7500e-003	1.0500e-003	1.9307
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.5731</b>	<b>1.7500e-003</b>	<b>1.0500e-003</b>	<b>1.9307</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4717	0.0870	0.0000	3.6460
Unmitigated	1.4717	0.0870	0.0000	3.6460

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	7.25	1.4717	0.0870	0.0000	3.6460
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.4717</b>	<b>0.0870</b>	<b>0.0000</b>	<b>3.6460</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	7.25	1.4717	0.0870	0.0000	3.6460
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.4717</b>	<b>0.0870</b>	<b>0.0000</b>	<b>3.6460</b>

**9.0 Operational Offroad**

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

**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					
Forklifts	6.7000e-003	0.0627	0.0748	1.0000e-004		3.8700e-003	3.8700e-003		3.5600e-003	3.5600e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
<b>Total</b>	<b>6.7000e-003</b>	<b>0.0627</b>	<b>0.0748</b>	<b>1.0000e-004</b>		<b>3.8700e-003</b>	<b>3.8700e-003</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>8.7726</b>	<b>8.7726</b>	<b>2.8400e-003</b>	<b>0.0000</b>	<b>8.8435</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**