

# Appendix B-1

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## CalEEMod Outputs



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**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Based on SCE 2019 Sustainability Report.

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

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Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA

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## Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	16.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

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tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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**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					
2021	0.1518	1.9371	1.0020	3.2100e-003	0.5904	0.0680	0.6583	0.1834	0.0628	0.2462	0.0000	297.3901	297.3901	0.0558	0.0000	298.7858
2022	0.5826	5.3469	4.9958	0.0174	0.9757	0.1403	1.1160	0.2785	0.1312	0.4097	0.0000	1,599.0473	1,599.0473	0.1604	0.0000	1,603.0562
2023	0.9946	3.2776	4.0114	0.0136	0.7284	0.0888	0.8172	0.1965	0.0834	0.2798	0.0000	1,253.0640	1,253.0640	0.1077	0.0000	1,255.7559
2024	1.9475	0.0458	0.1249	3.6000e-004	0.0303	1.8300e-003	0.0322	8.0700e-003	1.8100e-003	9.8800e-003	0.0000	32.4327	32.4327	1.0300e-003	0.0000	32.4585
<b>Maximum</b>	<b>1.9475</b>	<b>5.3469</b>	<b>4.9958</b>	<b>0.0174</b>	<b>0.9757</b>	<b>0.1403</b>	<b>1.1160</b>	<b>0.2785</b>	<b>0.1312</b>	<b>0.4097</b>	<b>0.0000</b>	<b>1,599.0473</b>	<b>1,599.0473</b>	<b>0.1604</b>	<b>0.0000</b>	<b>1,603.0562</b>



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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1518	1.9371	1.0020	3.2100e-003	0.2980	0.0680	0.3660	0.0911	0.0628	0.1539	0.0000	297.3899	297.3899	0.0558	0.0000	298.7857
2022	0.5826	5.3469	4.9957	0.0174	0.8921	0.1403	1.0324	0.2475	0.1312	0.3786	0.0000	1,599.0468	1,599.0468	0.1604	0.0000	1,603.0557
2023	0.9946	3.2776	4.0114	0.0136	0.7284	0.0888	0.8172	0.1965	0.0834	0.2798	0.0000	1,253.0637	1,253.0637	0.1077	0.0000	1,255.7556
2024	1.9475	0.0458	0.1249	3.6000e-004	0.0303	1.8300e-003	0.0322	8.0700e-003	1.8100e-003	9.8800e-003	0.0000	32.4327	32.4327	1.0300e-003	0.0000	32.4585
<b>Maximum</b>	<b>1.9475</b>	<b>5.3469</b>	<b>4.9957</b>	<b>0.0174</b>	<b>0.8921</b>	<b>0.1403</b>	<b>1.0324</b>	<b>0.2475</b>	<b>0.1312</b>	<b>0.3786</b>	<b>0.0000</b>	<b>1,599.0468</b>	<b>1,599.0468</b>	<b>0.1604</b>	<b>0.0000</b>	<b>1,603.0557</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>16.17</b>	<b>0.00</b>	<b>14.33</b>	<b>18.51</b>	<b>0.00</b>	<b>13.04</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-4-2021	1-3-2022	2.1405	2.1405
2	1-4-2022	4-3-2022	2.0064	2.0064
3	4-4-2022	7-3-2022	1.2685	1.2685
4	7-4-2022	10-3-2022	1.2828	1.2828
5	10-4-2022	1-3-2023	1.2846	1.2846
6	1-4-2023	4-3-2023	1.0653	1.0653
7	4-4-2023	7-3-2023	1.0700	1.0700
8	7-4-2023	10-3-2023	1.0820	1.0820

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9	10-4-2023	1-3-2024	1.1252	1.1252
10	1-4-2024	4-3-2024	1.8812	1.8812
		Highest	2.1405	2.1405

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	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Energy	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	775.8339	775.8339	1.3700e-003	1.3100e-003	776.2600
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.3468	4.3328	7.0054	0.0115		0.1340	0.1340		0.1233	0.1233	0.0000	1,005.0087	1,005.0087	0.3250	0.0000	1,013.1347
Waste						0.0000	0.0000		0.0000	0.0000	111.3710	0.0000	111.3710	6.5818	0.0000	275.9169
Water						0.0000	0.0000		0.0000	0.0000	37.7294	375.0803	412.8097	3.8752	0.0915	536.9563
<b>Total</b>	<b>2.5066</b>	<b>4.3988</b>	<b>7.0753</b>	<b>0.0119</b>	<b>0.0000</b>	<b>0.1391</b>	<b>0.1391</b>	<b>0.0000</b>	<b>0.1283</b>	<b>0.1283</b>	<b>149.1004</b>	<b>2,155.9513</b>	<b>2,305.0517</b>	<b>10.7835</b>	<b>0.0928</b>	<b>2,602.2981</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Energy	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	775.8339	775.8339	1.3700e-003	1.3100e-003	776.2600
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.3468	4.3328	7.0054	0.0115		0.1340	0.1340		0.1233	0.1233	0.0000	1,005.0087	1,005.0087	0.3250	0.0000	1,013.1347
Waste						0.0000	0.0000		0.0000	0.0000	111.3710	0.0000	111.3710	6.5818	0.0000	275.9169
Water						0.0000	0.0000		0.0000	0.0000	37.7294	375.0803	412.8097	3.8752	0.0915	536.9563
<b>Total</b>	<b>2.5066</b>	<b>4.3988</b>	<b>7.0753</b>	<b>0.0119</b>	<b>0.0000</b>	<b>0.1391</b>	<b>0.1391</b>	<b>0.0000</b>	<b>0.1283</b>	<b>0.1283</b>	<b>149.1004</b>	<b>2,155.9513</b>	<b>2,305.0517</b>	<b>10.7835</b>	<b>0.0928</b>	<b>2,602.2981</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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					0.2440	0.0000	0.2440	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.2440</b>	<b>0.0233</b>	<b>0.2673</b>	<b>0.0370</b>	<b>0.0216</b>	<b>0.0586</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	1.7000e-004	5.8100e-003	1.4400e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4649	1.4649	9.0000e-005	0.0000	1.4672
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.4500e-003</b>	<b>0.3005</b>	<b>0.0722</b>	<b>9.1000e-004</b>	<b>0.0224</b>	<b>9.2000e-004</b>	<b>0.0233</b>	<b>6.1300e-003</b>	<b>8.8000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>87.9861</b>	<b>87.9861</b>	<b>5.9200e-003</b>	<b>0.0000</b>	<b>88.1342</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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.1098</b>	<b>0.0233</b>	<b>0.1331</b>	<b>0.0166</b>	<b>0.0216</b>	<b>0.0383</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	1.7000e-004	5.8100e-003	1.4400e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4649	1.4649	9.0000e-005	0.0000	1.4672
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.4500e-003</b>	<b>0.3005</b>	<b>0.0722</b>	<b>9.1000e-004</b>	<b>0.0224</b>	<b>9.2000e-004</b>	<b>0.0233</b>	<b>6.1300e-003</b>	<b>8.8000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>87.9861</b>	<b>87.9861</b>	<b>5.9200e-003</b>	<b>0.0000</b>	<b>88.1342</b>

**3.3 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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>



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**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8700e-003	9.6000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9766	0.9766	6.0000e-005	0.0000	0.9781
Worker	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>8.6000e-004</b>	<b>4.4200e-003</b>	<b>7.2300e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>2.2500e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.6968</b>	<b>2.6968</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.6995</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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.0813</b>	<b>0.0204</b>	<b>0.1017</b>	<b>0.0447</b>	<b>0.0188</b>	<b>0.0635</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

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**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8700e-003	9.6000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9766	0.9766	6.0000e-005	0.0000	0.9781
Worker	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>8.6000e-004</b>	<b>4.4200e-003</b>	<b>7.2300e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>2.2500e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.6968</b>	<b>2.6968</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.6995</b>

**3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.1069	0.0000	0.1069	0.0316	0.0000	0.0316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0489	0.5565	0.3401	7.3000e-004		0.0227	0.0227		0.0209	0.0209	0.0000	64.0272	64.0272	0.0207	0.0000	64.5449
<b>Total</b>	<b>0.0489</b>	<b>0.5565</b>	<b>0.3401</b>	<b>7.3000e-004</b>	<b>0.1069</b>	<b>0.0227</b>	<b>0.1296</b>	<b>0.0316</b>	<b>0.0209</b>	<b>0.0525</b>	<b>0.0000</b>	<b>64.0272</b>	<b>64.0272</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5449</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
Vendor	9.0000e-005	2.9000e-003	7.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7324	0.7324	5.0000e-005	0.0000	0.7336
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.2400e-003</b>	<b>0.1991</b>	<b>0.0475</b>	<b>6.0000e-004</b>	<b>0.0342</b>	<b>6.1000e-004</b>	<b>0.0348</b>	<b>8.8100e-003</b>	<b>5.9000e-004</b>	<b>9.3900e-003</b>	<b>0.0000</b>	<b>58.2430</b>	<b>58.2430</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>58.3412</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					0.0481	0.0000	0.0481	0.0142	0.0000	0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0489	0.5565	0.3401	7.3000e-004		0.0227	0.0227		0.0209	0.0209	0.0000	64.0272	64.0272	0.0207	0.0000	64.5449
<b>Total</b>	<b>0.0489</b>	<b>0.5565</b>	<b>0.3401</b>	<b>7.3000e-004</b>	<b>0.0481</b>	<b>0.0227</b>	<b>0.0708</b>	<b>0.0142</b>	<b>0.0209</b>	<b>0.0351</b>	<b>0.0000</b>	<b>64.0272</b>	<b>64.0272</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5449</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
Vendor	9.0000e-005	2.9000e-003	7.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7324	0.7324	5.0000e-005	0.0000	0.7336
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.2400e-003</b>	<b>0.1991</b>	<b>0.0475</b>	<b>6.0000e-004</b>	<b>0.0342</b>	<b>6.1000e-004</b>	<b>0.0348</b>	<b>8.8100e-003</b>	<b>5.9000e-004</b>	<b>9.3900e-003</b>	<b>0.0000</b>	<b>58.2430</b>	<b>58.2430</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>58.3412</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1520	0.0000	0.1520	0.0564	0.0000	0.0564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0852	0.9318	0.6249	1.4600e-003		0.0377	0.0377		0.0346	0.0346	0.0000	128.2160	128.2160	0.0415	0.0000	129.2527
<b>Total</b>	<b>0.0852</b>	<b>0.9318</b>	<b>0.6249</b>	<b>1.4600e-003</b>	<b>0.1520</b>	<b>0.0377</b>	<b>0.1897</b>	<b>0.0564</b>	<b>0.0346</b>	<b>0.0910</b>	<b>0.0000</b>	<b>128.2160</b>	<b>128.2160</b>	<b>0.0415</b>	<b>0.0000</b>	<b>129.2527</b>

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**3.4 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	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
Vendor	1.6000e-004	5.5000e-003	1.3600e-003	1.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4520	1.4520	9.0000e-005	0.0000	1.4542
Worker	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0118</b>	<b>0.3676</b>	<b>0.0930</b>	<b>1.1700e-003</b>	<b>0.0392</b>	<b>1.0500e-003</b>	<b>0.0403</b>	<b>0.0105</b>	<b>1.0100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>115.0402</b>	<b>115.0402</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>115.2325</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					0.0684	0.0000	0.0684	0.0254	0.0000	0.0254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0852	0.9318	0.6249	1.4600e-003		0.0377	0.0377		0.0346	0.0346	0.0000	128.2158	128.2158	0.0415	0.0000	129.2525
<b>Total</b>	<b>0.0852</b>	<b>0.9318</b>	<b>0.6249</b>	<b>1.4600e-003</b>	<b>0.0684</b>	<b>0.0377</b>	<b>0.1061</b>	<b>0.0254</b>	<b>0.0346</b>	<b>0.0600</b>	<b>0.0000</b>	<b>128.2158</b>	<b>128.2158</b>	<b>0.0415</b>	<b>0.0000</b>	<b>129.2525</b>

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**3.4 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	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
Vendor	1.6000e-004	5.5000e-003	1.3600e-003	1.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4520	1.4520	9.0000e-005	0.0000	1.4542
Worker	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0118</b>	<b>0.3676</b>	<b>0.0930</b>	<b>1.1700e-003</b>	<b>0.0392</b>	<b>1.0500e-003</b>	<b>0.0403</b>	<b>0.0105</b>	<b>1.0100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>115.0402</b>	<b>115.0402</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>115.2325</b>

**3.5 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	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4840</b>	<b>266.4840</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0801</b>

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**3.5 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	0.0608	2.0891	0.5163	5.6900e-003	0.1435	3.8400e-003	0.1474	0.0414	3.6700e-003	0.0451	0.0000	551.0270	551.0270	0.0338	0.0000	551.8728
Worker	0.2287	0.1626	1.8798	5.9500e-003	0.6409	4.6700e-003	0.6456	0.1702	4.3000e-003	0.1745	0.0000	538.2801	538.2801	0.0135	0.0000	538.6182
<b>Total</b>	<b>0.2894</b>	<b>2.2516</b>	<b>2.3961</b>	<b>0.0116</b>	<b>0.7845</b>	<b>8.5100e-003</b>	<b>0.7930</b>	<b>0.2116</b>	<b>7.9700e-003</b>	<b>0.2196</b>	<b>0.0000</b>	<b>1,089.3071</b>	<b>1,089.3071</b>	<b>0.0474</b>	<b>0.0000</b>	<b>1,090.4910</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	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4837</b>	<b>266.4837</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0798</b>

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**3.5 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	0.0608	2.0891	0.5163	5.6900e-003	0.1435	3.8400e-003	0.1474	0.0414	3.6700e-003	0.0451	0.0000	551.0270	551.0270	0.0338	0.0000	551.8728
Worker	0.2287	0.1626	1.8798	5.9500e-003	0.6409	4.6700e-003	0.6456	0.1702	4.3000e-003	0.1745	0.0000	538.2801	538.2801	0.0135	0.0000	538.6182
<b>Total</b>	<b>0.2894</b>	<b>2.2516</b>	<b>2.3961</b>	<b>0.0116</b>	<b>0.7845</b>	<b>8.5100e-003</b>	<b>0.7930</b>	<b>0.2116</b>	<b>7.9700e-003</b>	<b>0.2196</b>	<b>0.0000</b>	<b>1,089.3071</b>	<b>1,089.3071</b>	<b>0.0474</b>	<b>0.0000</b>	<b>1,090.4910</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3950	243.3950	0.0579	0.0000	244.8425
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3950</b>	<b>243.3950</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8425</b>



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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.4352	0.4214	5.0300e-003	0.1310	1.6300e-003	0.1327	0.0378	1.5600e-003	0.0394	0.0000	487.9465	487.9465	0.0269	0.0000	488.6179
Worker	0.1966	0.1343	1.5825	5.2300e-003	0.5852	4.1500e-003	0.5894	0.1554	3.8200e-003	0.1592	0.0000	473.1440	473.1440	0.0111	0.0000	473.4222
<b>Total</b>	<b>0.2379</b>	<b>1.5695</b>	<b>2.0039</b>	<b>0.0103</b>	<b>0.7163</b>	<b>5.7800e-003</b>	<b>0.7220</b>	<b>0.1932</b>	<b>5.3800e-003</b>	<b>0.1986</b>	<b>0.0000</b>	<b>961.0906</b>	<b>961.0906</b>	<b>0.0380</b>	<b>0.0000</b>	<b>962.0401</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	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3947	243.3947	0.0579	0.0000	244.8422
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3947</b>	<b>243.3947</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8422</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.4352	0.4214	5.0300e-003	0.1310	1.6300e-003	0.1327	0.0378	1.5600e-003	0.0394	0.0000	487.9465	487.9465	0.0269	0.0000	488.6179
Worker	0.1966	0.1343	1.5825	5.2300e-003	0.5852	4.1500e-003	0.5894	0.1554	3.8200e-003	0.1592	0.0000	473.1440	473.1440	0.0111	0.0000	473.4222
<b>Total</b>	<b>0.2379</b>	<b>1.5695</b>	<b>2.0039</b>	<b>0.0103</b>	<b>0.7163</b>	<b>5.7800e-003</b>	<b>0.7220</b>	<b>0.1932</b>	<b>5.3800e-003</b>	<b>0.1986</b>	<b>0.0000</b>	<b>961.0906</b>	<b>961.0906</b>	<b>0.0380</b>	<b>0.0000</b>	<b>962.0401</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.8300e-003	1.4200e-003	2.0000e-005	4.4000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.6429	1.6429	9.0000e-005	0.0000	1.6452
Worker	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.1700e-003</b>	<b>5.5300e-003</b>	<b>9.7300e-003</b>	<b>5.0000e-005</b>	<b>3.5100e-003</b>	<b>3.0000e-005</b>	<b>3.5400e-003</b>	<b>9.5000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>4.1266</b>	<b>4.1266</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.1303</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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.8300e-003	1.4200e-003	2.0000e-005	4.4000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.6429	1.6429	9.0000e-005	0.0000	1.6452
Worker	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.1700e-003</b>	<b>5.5300e-003</b>	<b>9.7300e-003</b>	<b>5.0000e-005</b>	<b>3.5100e-003</b>	<b>3.0000e-005</b>	<b>3.5400e-003</b>	<b>9.5000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>4.1266</b>	<b>4.1266</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.1303</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.5486</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.0700e-003	6.1000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7041	0.7041	4.0000e-005	0.0000	0.7051
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8800e-003</b>	<b>4.0000e-003</b>	<b>0.0233</b>	<b>9.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>5.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4899</b>	<b>7.4899</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>7.4949</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	0.5471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.5486</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.0700e-003	6.1000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7041	0.7041	4.0000e-005	0.0000	0.7051
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8800e-003</b>	<b>4.0000e-003</b>	<b>0.0233</b>	<b>9.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>5.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4899</b>	<b>7.4899</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>7.4949</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7900e-003	0.0323	0.0480	8.0000e-005		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	6.7661	6.7661	3.8000e-004	0.0000	6.7757
<b>Total</b>	<b>1.9379</b>	<b>0.0323</b>	<b>0.0480</b>	<b>8.0000e-005</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.7757</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.3000e-003	2.0900e-003	3.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4791	2.4791	1.3000e-004	0.0000	2.4824
Worker	9.4400e-003	6.2000e-003	0.0748	2.6000e-004	0.0297	2.1000e-004	0.0299	7.8800e-003	1.9000e-004	8.0700e-003	0.0000	23.1875	23.1875	5.2000e-004	0.0000	23.2004
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0135</b>	<b>0.0769</b>	<b>2.9000e-004</b>	<b>0.0303</b>	<b>2.2000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>2.0000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>25.6666</b>	<b>25.6666</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>25.6828</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	1.9331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7900e-003	0.0323	0.0480	8.0000e-005		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	6.7661	6.7661	3.8000e-004	0.0000	6.7756
<b>Total</b>	<b>1.9379</b>	<b>0.0323</b>	<b>0.0480</b>	<b>8.0000e-005</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.7756</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.3000e-003	2.0900e-003	3.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4791	2.4791	1.3000e-004	0.0000	2.4824
Worker	9.4400e-003	6.2000e-003	0.0748	2.6000e-004	0.0297	2.1000e-004	0.0299	7.8800e-003	1.9000e-004	8.0700e-003	0.0000	23.1875	23.1875	5.2000e-004	0.0000	23.2004
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0135</b>	<b>0.0769</b>	<b>2.9000e-004</b>	<b>0.0303</b>	<b>2.2000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>2.0000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>25.6666</b>	<b>25.6666</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>25.6828</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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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					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**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	704.1322	704.1322	0.0000	0.0000	704.1322
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	704.1322	704.1322	0.0000	0.0000	704.1322
NaturalGas Mitigated	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278
NaturalGas Unmitigated	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278

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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					
Industrial Park	747071	4.0300e-003	0.0366	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.8666	39.8666	7.6000e-004	7.3000e-004	40.1035
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	596568	3.2200e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8351	31.8351	6.1000e-004	5.8000e-004	32.0243
<b>Total</b>		<b>7.2500e-003</b>	<b>0.0659</b>	<b>0.0553</b>	<b>4.0000e-004</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>71.7017</b>	<b>71.7017</b>	<b>1.3700e-003</b>	<b>1.3100e-003</b>	<b>72.1278</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	747071	4.0300e-003	0.0366	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.8666	39.8666	7.6000e-004	7.3000e-004	40.1035
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	596568	3.2200e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8351	31.8351	6.1000e-004	5.8000e-004	32.0243
<b>Total</b>		<b>7.2500e-003</b>	<b>0.0659</b>	<b>0.0553</b>	<b>4.0000e-004</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>71.7017</b>	<b>71.7017</b>	<b>1.3700e-003</b>	<b>1.3100e-003</b>	<b>72.1278</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			
Industrial Park	1.99887e+006	484.1626	0.0000	0.0000	484.1626
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	53.1544	0.0000	0.0000	53.1544
Unrefrigerated Warehouse-No Rail	688698	166.8152	0.0000	0.0000	166.8152
<b>Total</b>		<b>704.1322</b>	<b>0.0000</b>	<b>0.0000</b>	<b>704.1322</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.99887e+006	484.1626	0.0000	0.0000	484.1626
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	53.1544	0.0000	0.0000	53.1544
Unrefrigerated Warehouse-No Rail	688698	166.8152	0.0000	0.0000	166.8152
<b>Total</b>		<b>704.1322</b>	<b>0.0000</b>	<b>0.0000</b>	<b>704.1322</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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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					
Mitigated	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Unmitigated	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302

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	0.2480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9032					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
<b>Total</b>	<b>2.1526</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0284</b>	<b>0.0284</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0302</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	0.2480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9032					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
<b>Total</b>	<b>2.1526</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0284</b>	<b>0.0284</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0302</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	412.8097	3.8752	0.0915	536.9563
Unmitigated	412.8097	3.8752	0.0915	536.9563

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	50.2899 / 0	174.5654	1.6387	0.0387	227.0634
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	68.635 / 0	238.2444	2.2365	0.0528	309.8929
<b>Total</b>		<b>412.8097</b>	<b>3.8752</b>	<b>0.0915</b>	<b>536.9563</b>

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**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	50.2899 / 0	174.5654	1.6387	0.0387	227.0634
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	68.635 / 0	238.2444	2.2365	0.0528	309.8929
<b>Total</b>		<b>412.8097</b>	<b>3.8752</b>	<b>0.0915</b>	<b>536.9563</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	111.3710	6.5818	0.0000	275.9169
Unmitigated	111.3710	6.5818	0.0000	275.9169

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	269.66	54.7385	3.2350	0.0000	135.6124
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.99	56.6325	3.3469	0.0000	140.3045
<b>Total</b>		<b>111.3710</b>	<b>6.5818</b>	<b>0.0000</b>	<b>275.9169</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	269.66	54.7385	3.2350	0.0000	135.6124
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.99	56.6325	3.3469	0.0000	140.3045
<b>Total</b>		<b>111.3710</b>	<b>6.5818</b>	<b>0.0000</b>	<b>275.9169</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	2	4.00	365	200	0.44	Diesel
Rough Terrain Forklifts	16	8.00	365	100	0.40	Diesel

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**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					
Off-Highway Tractors	0.0478	0.3901	0.3214	1.3800e-003		0.0139	0.0139		0.0128	0.0128	0.0000	120.9484	120.9484	0.0391	0.0000	121.9263
Rough Terrain Forklifts	0.2990	3.9427	6.6840	0.0101		0.1201	0.1201		0.1105	0.1105	0.0000	884.0604	884.0604	0.2859	0.0000	891.2084
<b>Total</b>	<b>0.3468</b>	<b>4.3328</b>	<b>7.0054</b>	<b>0.0115</b>		<b>0.1340</b>	<b>0.1340</b>		<b>0.1233</b>	<b>0.1233</b>	<b>0.0000</b>	<b>1,005.0087</b>	<b>1,005.0087</b>	<b>0.3250</b>	<b>0.0000</b>	<b>1,013.1347</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**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Based on SCE 2019 Sustainability Report.

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

## Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	16.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00



## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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					
2021	7.3433	99.9702	51.5553	0.1771	18.2931	3.1065	20.3398	9.9914	2.8609	11.8744	0.0000	18,047.3063	18,047.3063	3.6102	0.0000	18,137.5618
2022	6.4573	85.9387	47.7423	0.1762	11.4247	2.5802	14.0049	4.3189	2.3763	6.6952	0.0000	17,952.3097	17,952.3097	3.6032	0.0000	18,042.3899
2023	73.5266	29.0734	36.4020	0.1278	6.9455	0.7545	7.7000	1.8707	0.7094	2.5801	0.0000	12,962.0760	12,962.0760	1.0051	0.0000	12,987.2028
2024	73.4952	1.6999	4.9501	0.0141	1.1657	0.0691	1.2348	0.3097	0.0684	0.3782	0.0000	1,399.9085	1,399.9085	0.0440	0.0000	1,401.0083
<b>Maximum</b>	<b>73.5266</b>	<b>99.9702</b>	<b>51.5553</b>	<b>0.1771</b>	<b>18.2931</b>	<b>3.1065</b>	<b>20.3398</b>	<b>9.9914</b>	<b>2.8609</b>	<b>11.8744</b>	<b>0.0000</b>	<b>18,047.3063</b>	<b>18,047.3063</b>	<b>3.6102</b>	<b>0.0000</b>	<b>18,137.5618</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7383</b>	<b>24.1034</b>	<b>38.8055</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.6478</b>	<b>6,503.6478</b>	<b>1.9722</b>	<b>7.9400e-003</b>	<b>6,555.3193</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7383</b>	<b>24.1034</b>	<b>38.8055</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.6478</b>	<b>6,503.6478</b>	<b>1.9722</b>	<b>7.9400e-003</b>	<b>6,555.3193</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
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**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

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
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6243</b>	<b>19.4501</b>	<b>4.7204</b>	<b>0.0604</b>	<b>1.5185</b>	<b>0.0611</b>	<b>1.5795</b>	<b>0.4149</b>	<b>0.0584</b>	<b>0.4733</b>		<b>6,524.2974</b>	<b>6,524.2974</b>	<b>0.4275</b>		<b>6,534.9857</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					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6243</b>	<b>19.4501</b>	<b>4.7204</b>	<b>0.0604</b>	<b>1.5185</b>	<b>0.0611</b>	<b>1.5795</b>	<b>0.4149</b>	<b>0.0584</b>	<b>0.4733</b>		<b>6,524.2974</b>	<b>6,524.2974</b>	<b>0.4275</b>		<b>6,534.9857</b>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0871</b>	<b>0.4308</b>	<b>0.7686</b>	<b>3.0200e-003</b>	<b>0.2268</b>	<b>2.2500e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.0900e-003</b>	<b>0.0628</b>		<b>308.3080</b>	<b>308.3080</b>	<b>0.0120</b>		<b>308.6068</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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0871</b>	<b>0.4308</b>	<b>0.7686</b>	<b>3.0200e-003</b>	<b>0.2268</b>	<b>2.2500e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.0900e-003</b>	<b>0.0628</b>		<b>308.3080</b>	<b>308.3080</b>	<b>0.0120</b>		<b>308.6068</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.3941	9,410.3941	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.3941</b>	<b>9,410.3941</b>	<b>3.0435</b>		<b>9,486.4819</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.4562	8,306.4562	0.5542		8,320.3102
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8221</b>	<b>25.7689</b>	<b>6.2064</b>	<b>0.0800</b>	<b>4.6466</b>	<b>0.0809</b>	<b>4.7276</b>	<b>1.1961</b>	<b>0.0774</b>	<b>1.2734</b>		<b>8,636.9122</b>	<b>8,636.9122</b>	<b>0.5667</b>		<b>8,651.0800</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836	0.0000	9,410.3940	9,410.3940	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>3.9438</b>	<b>3.0256</b>	<b>6.9694</b>	<b>1.6246</b>	<b>2.7836</b>	<b>4.4082</b>	<b>0.0000</b>	<b>9,410.3940</b>	<b>9,410.3940</b>	<b>3.0435</b>		<b>9,486.4819</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8221</b>	<b>25.7689</b>	<b>6.2064</b>	<b>0.0800</b>	<b>4.6466</b>	<b>0.0809</b>	<b>4.7276</b>	<b>1.1961</b>	<b>0.0774</b>	<b>1.2734</b>		<b>8,636.912 2</b>	<b>8,636.912 2</b>	<b>0.5667</b>		<b>8,651.080 0</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.261 7	9,422.261 7	3.0474		9,498.445 5
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>		<b>9,498.445 5</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 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	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7796</b>	<b>23.8187</b>	<b>6.0836</b>	<b>0.0789</b>	<b>2.6608</b>	<b>0.0698</b>	<b>2.7306</b>	<b>0.7086</b>	<b>0.0667</b>	<b>0.7753</b>		<b>8,530.0480</b>	<b>8,530.0480</b>	<b>0.5559</b>		<b>8,543.9445</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>3.9438</b>	<b>2.5104</b>	<b>6.4542</b>	<b>1.6246</b>	<b>2.3096</b>	<b>3.9342</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 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	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7796</b>	<b>23.8187</b>	<b>6.0836</b>	<b>0.0789</b>	<b>2.6608</b>	<b>0.0698</b>	<b>2.7306</b>	<b>0.7086</b>	<b>0.0667</b>	<b>0.7753</b>		<b>8,530.0480</b>	<b>8,530.0480</b>	<b>0.5559</b>		<b>8,543.9445</b>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 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
Vendor	0.5167	17.9256	4.2352	0.0501	1.2672	0.0330	1.3002	0.3648	0.0315	0.3963		5,347.1707	5,347.1707	0.3141		5,355.0239
Worker	2.0114	1.2563	17.6963	0.0544	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,424.0376	5,424.0376	0.1367		5,427.4557
<b>Total</b>	<b>2.5281</b>	<b>19.1818</b>	<b>21.9315</b>	<b>0.1045</b>	<b>6.9455</b>	<b>0.0736</b>	<b>7.0190</b>	<b>1.8707</b>	<b>0.0689</b>	<b>1.9396</b>		<b>10,771.2082</b>	<b>10,771.2082</b>	<b>0.4509</b>		<b>10,782.4796</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	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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 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
Vendor	0.5167	17.9256	4.2352	0.0501	1.2672	0.0330	1.3002	0.3648	0.0315	0.3963		5,347.1707	5,347.1707	0.3141		5,355.0239
Worker	2.0114	1.2563	17.6963	0.0544	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,424.0376	5,424.0376	0.1367		5,427.4557
<b>Total</b>	<b>2.5281</b>	<b>19.1818</b>	<b>21.9315</b>	<b>0.1045</b>	<b>6.9455</b>	<b>0.0736</b>	<b>7.0190</b>	<b>1.8707</b>	<b>0.0689</b>	<b>1.9396</b>		<b>10,771.2082</b>	<b>10,771.2082</b>	<b>0.4509</b>		<b>10,782.4796</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.3855	13.5518	3.8158	0.0485	1.2672	0.0152	1.2825	0.3648	0.0146	0.3794		5,184.9808	5,184.9808	0.2739		5,191.8288
Worker	1.8912	1.1367	16.3422	0.0524	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		5,221.8853	5,221.8853	0.1233		5,224.9680
<b>Total</b>	<b>2.2767</b>	<b>14.6886</b>	<b>20.1580</b>	<b>0.1008</b>	<b>6.9455</b>	<b>0.0548</b>	<b>7.0002</b>	<b>1.8707</b>	<b>0.0510</b>	<b>1.9217</b>		<b>10,406.8661</b>	<b>10,406.8661</b>	<b>0.3972</b>		<b>10,416.7968</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.3855	13.5518	3.8158	0.0485	1.2672	0.0152	1.2825	0.3648	0.0146	0.3794		5,184.9808	5,184.9808	0.2739		5,191.8288
Worker	1.8912	1.1367	16.3422	0.0524	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		5,221.8853	5,221.8853	0.1233		5,224.9680
<b>Total</b>	<b>2.2767</b>	<b>14.6886</b>	<b>20.1580</b>	<b>0.1008</b>	<b>6.9455</b>	<b>0.0548</b>	<b>7.0002</b>	<b>1.8707</b>	<b>0.0510</b>	<b>1.9217</b>		<b>10,406.8661</b>	<b>10,406.8661</b>	<b>0.3972</b>		<b>10,416.7968</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0674</b>	<b>0.3096</b>	<b>0.5918</b>	<b>2.6300e-003</b>	<b>0.2044</b>	<b>1.5600e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4400e-003</b>	<b>0.0562</b>		<b>269.2159</b>	<b>269.2159</b>	<b>9.4100e-003</b>		<b>269.4514</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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0674</b>	<b>0.3096</b>	<b>0.5918</b>	<b>2.6300e-003</b>	<b>0.2044</b>	<b>1.5600e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4400e-003</b>	<b>0.0562</b>		<b>269.2159</b>	<b>269.2159</b>	<b>9.4100e-003</b>		<b>269.4514</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3875</b>	<b>0.5020</b>	<b>3.3584</b>	<b>0.0115</b>	<b>1.1657</b>	<b>8.2500e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6000e-003</b>	<b>0.3173</b>		<b>1,153.2359</b>	<b>1,153.2359</b>	<b>0.0303</b>		<b>1,153.9932</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3875</b>	<b>0.5020</b>	<b>3.3584</b>	<b>0.0115</b>	<b>1.1657</b>	<b>8.2500e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6000e-003</b>	<b>0.3173</b>		<b>1,153.2359</b>	<b>1,153.2359</b>	<b>0.0303</b>		<b>1,153.9932</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3670</b>	<b>0.4811</b>	<b>3.1400</b>	<b>0.0111</b>	<b>1.1657</b>	<b>8.1400e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5000e-003</b>	<b>0.3172</b>		<b>1,118.4604</b>	<b>1,118.4604</b>	<b>0.0282</b>		<b>1,119.1640</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3670</b>	<b>0.4811</b>	<b>3.1400</b>	<b>0.0111</b>	<b>1.1657</b>	<b>8.1400e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5000e-003</b>	<b>0.3172</b>		<b>1,118.4604</b>	<b>1,118.4604</b>	<b>0.0282</b>		<b>1,119.1640</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
NaturalGas Unmitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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					
Industrial Park	2046.77	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04677	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**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
Off-Highway Tractors	2	4.00	365	200	0.44	Diesel
Rough Terrain Forklifts	16	8.00	365	100	0.40	Diesel



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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					
Off-Highway Tractors	0.2621	2.1377	1.7610	7.5500e-003		0.0763	0.0763		0.0702	0.0702		730.5355	730.5355	0.2363		736.4423
Rough Terrain Forklifts	1.6383	21.6037	36.6248	0.0552		0.6580	0.6580		0.6053	0.6053		5,339.7794	5,339.7794	1.7270		5,382.9542
<b>Total</b>	<b>1.9003</b>	<b>23.7414</b>	<b>38.3858</b>	<b>0.0627</b>		<b>0.7342</b>	<b>0.7342</b>		<b>0.6755</b>	<b>0.6755</b>		<b>6,070.3149</b>	<b>6,070.3149</b>	<b>1.9633</b>		<b>6,119.3965</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**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Based on SCE 2019 Sustainability Report.

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

## Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	16.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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					
2021	7.3724	100.2754	51.8839	0.1756	18.2931	3.1078	20.3398	9.9914	2.8621	11.8744	0.0000	17,876.15 69	17,876.15 69	3.6337	0.0000	17,966.99 96
2022	6.4852	86.1924	48.0565	0.1746	11.4247	2.5813	14.0060	4.3189	2.3773	6.6962	0.0000	17,782.20 57	17,782.20 57	3.6256	0.0000	17,872.84 55
2023	73.5645	29.0933	35.0672	0.1230	6.9455	0.7553	7.7007	1.8707	0.7101	2.5808	0.0000	12,474.95 66	12,474.95 66	1.0145	0.0000	12,500.31 83
2024	73.5322	1.7177	4.6312	0.0134	1.1657	0.0691	1.2348	0.3097	0.0684	0.3782	0.0000	1,331.061 6	1,331.061 6	0.0427	0.0000	1,332.130 1
<b>Maximum</b>	<b>73.5645</b>	<b>100.2754</b>	<b>51.8839</b>	<b>0.1756</b>	<b>18.2931</b>	<b>3.1078</b>	<b>20.3398</b>	<b>9.9914</b>	<b>2.8621</b>	<b>11.8744</b>	<b>0.0000</b>	<b>17,876.15 69</b>	<b>17,876.15 69</b>	<b>3.6337</b>	<b>0.0000</b>	<b>17,966.99 96</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7383</b>	<b>24.1034</b>	<b>38.8055</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.6478</b>	<b>6,503.6478</b>	<b>1.9722</b>	<b>7.9400e-003</b>	<b>6,555.3193</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7383</b>	<b>24.1034</b>	<b>38.8055</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.6478</b>	<b>6,503.6478</b>	<b>1.9722</b>	<b>7.9400e-003</b>	<b>6,555.3193</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**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

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
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6467</b>	<b>19.6792</b>	<b>4.9662</b>	<b>0.0592</b>	<b>1.5185</b>	<b>0.0620</b>	<b>1.5805</b>	<b>0.4149</b>	<b>0.0593</b>	<b>0.4742</b>		<b>6,394.2758</b>	<b>6,394.2758</b>	<b>0.4453</b>		<b>6,405.4076</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					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6467</b>	<b>19.6792</b>	<b>4.9662</b>	<b>0.0592</b>	<b>1.5185</b>	<b>0.0620</b>	<b>1.5805</b>	<b>0.4149</b>	<b>0.0593</b>	<b>0.4742</b>		<b>6,394.2758</b>	<b>6,394.2758</b>	<b>0.4453</b>		<b>6,405.4076</b>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0947</b>	<b>0.4342</b>	<b>0.7107</b>	<b>2.8600e-003</b>	<b>0.2268</b>	<b>2.2700e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.1200e-003</b>	<b>0.0629</b>		<b>292.2403</b>	<b>292.2403</b>	<b>0.0121</b>		<b>292.5422</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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0947</b>	<b>0.4342</b>	<b>0.7107</b>	<b>2.8600e-003</b>	<b>0.2268</b>	<b>2.2700e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.1200e-003</b>	<b>0.0629</b>		<b>292.2403</b>	<b>292.2403</b>	<b>0.0121</b>		<b>292.5422</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.3941	9,410.3941	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.3941</b>	<b>9,410.3941</b>	<b>3.0435</b>		<b>9,486.4819</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8512</b>	<b>26.0741</b>	<b>6.5350</b>	<b>0.0784</b>	<b>4.6466</b>	<b>0.0822</b>	<b>4.7288</b>	<b>1.1961</b>	<b>0.0786</b>	<b>1.2746</b>		<b>8,465.762 8</b>	<b>8,465.762 8</b>	<b>0.5902</b>		<b>8,480.517 7</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836	0.0000	9,410.394 0	9,410.394 0	3.0435		9,486.481 9
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>3.9438</b>	<b>3.0256</b>	<b>6.9694</b>	<b>1.6246</b>	<b>2.7836</b>	<b>4.4082</b>	<b>0.0000</b>	<b>9,410.394 0</b>	<b>9,410.394 0</b>	<b>3.0435</b>		<b>9,486.481 9</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8512</b>	<b>26.0741</b>	<b>6.5350</b>	<b>0.0784</b>	<b>4.6466</b>	<b>0.0822</b>	<b>4.7288</b>	<b>1.1961</b>	<b>0.0786</b>	<b>1.2746</b>		<b>8,465.762 8</b>	<b>8,465.762 8</b>	<b>0.5902</b>		<b>8,480.517 7</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.261 7	9,422.261 7	3.0474		9,498.445 5
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>		<b>9,498.445 5</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 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	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.8075</b>	<b>24.0724</b>	<b>6.3979</b>	<b>0.0773</b>	<b>2.6608</b>	<b>0.0709</b>	<b>2.7317</b>	<b>0.7086</b>	<b>0.0678</b>	<b>0.7764</b>		<b>8,359.9439</b>	<b>8,359.9439</b>	<b>0.5782</b>		<b>8,374.4000</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>3.9438</b>	<b>2.5104</b>	<b>6.4542</b>	<b>1.6246</b>	<b>2.3096</b>	<b>3.9342</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 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	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.8075</b>	<b>24.0724</b>	<b>6.3979</b>	<b>0.0773</b>	<b>2.6608</b>	<b>0.0709</b>	<b>2.7317</b>	<b>0.7086</b>	<b>0.0678</b>	<b>0.7764</b>		<b>8,359.9439</b>	<b>8,359.9439</b>	<b>0.5782</b>		<b>8,374.4000</b>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 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
Vendor	0.5441	17.8540	4.7420	0.0486	1.2672	0.0340	1.3013	0.3648	0.0326	0.3974		5,191.4456	5,191.4456	0.3372		5,199.8745
Worker	2.2033	1.3748	15.8737	0.0509	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,072.5655	5,072.5655	0.1273		5,075.7488
<b>Total</b>	<b>2.7474</b>	<b>19.2288</b>	<b>20.6156</b>	<b>0.0995</b>	<b>6.9455</b>	<b>0.0746</b>	<b>7.0201</b>	<b>1.8707</b>	<b>0.0699</b>	<b>1.9407</b>		<b>10,264.0112</b>	<b>10,264.0112</b>	<b>0.4645</b>		<b>10,275.6233</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	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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 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
Vendor	0.5441	17.8540	4.7420	0.0486	1.2672	0.0340	1.3013	0.3648	0.0326	0.3974		5,191.4456	5,191.4456	0.3372		5,199.8745
Worker	2.2033	1.3748	15.8737	0.0509	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,072.5655	5,072.5655	0.1273		5,075.7488
<b>Total</b>	<b>2.7474</b>	<b>19.2288</b>	<b>20.6156</b>	<b>0.0995</b>	<b>6.9455</b>	<b>0.0746</b>	<b>7.0201</b>	<b>1.8707</b>	<b>0.0699</b>	<b>1.9407</b>		<b>10,264.0112</b>	<b>10,264.0112</b>	<b>0.4645</b>		<b>10,275.6233</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4061	13.4649	4.1930	0.0471	1.2672	0.0160	1.2832	0.3648	0.0153	0.3801		5,036.3608	5,036.3608	0.2919		5,043.6584
Worker	2.0780	1.2435	14.6301	0.0490	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		4,883.3859	4,883.3859	0.1147		4,886.2539
<b>Total</b>	<b>2.4841</b>	<b>14.7085</b>	<b>18.8232</b>	<b>0.0961</b>	<b>6.9455</b>	<b>0.0555</b>	<b>7.0010</b>	<b>1.8707</b>	<b>0.0517</b>	<b>1.9224</b>		<b>9,919.7467</b>	<b>9,919.7467</b>	<b>0.4066</b>		<b>9,929.9122</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4061	13.4649	4.1930	0.0471	1.2672	0.0160	1.2832	0.3648	0.0153	0.3801		5,036.3608	5,036.3608	0.2919		5,043.6584
Worker	2.0780	1.2435	14.6301	0.0490	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		4,883.3859	4,883.3859	0.1147		4,886.2539
<b>Total</b>	<b>2.4841</b>	<b>14.7085</b>	<b>18.8232</b>	<b>0.0961</b>	<b>6.9455</b>	<b>0.0555</b>	<b>7.0010</b>	<b>1.8707</b>	<b>0.0517</b>	<b>1.9224</b>		<b>9,919.7467</b>	<b>9,919.7467</b>	<b>0.4066</b>		<b>9,929.9122</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0737</b>	<b>0.3112</b>	<b>0.5455</b>	<b>2.4900e-003</b>	<b>0.2044</b>	<b>1.5700e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4600e-003</b>	<b>0.0563</b>		<b>255.5521</b>	<b>255.5521</b>	<b>9.5100e-003</b>		<b>255.7899</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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0737</b>	<b>0.3112</b>	<b>0.5455</b>	<b>2.4900e-003</b>	<b>0.2044</b>	<b>1.5700e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4600e-003</b>	<b>0.0563</b>		<b>255.5521</b>	<b>255.5521</b>	<b>9.5100e-003</b>		<b>255.7899</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4254</b>	<b>0.5217</b>	<b>3.0223</b>	<b>0.0108</b>	<b>1.1657</b>	<b>8.2600e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6200e-003</b>	<b>0.3174</b>		<b>1,082.2670</b>	<b>1,082.2670</b>	<b>0.0289</b>		<b>1,082.9903</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4254</b>	<b>0.5217</b>	<b>3.0223</b>	<b>0.0108</b>	<b>1.1657</b>	<b>8.2600e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6200e-003</b>	<b>0.3174</b>		<b>1,082.2670</b>	<b>1,082.2670</b>	<b>0.0289</b>		<b>1,082.9903</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.4041</b>	<b>0.4989</b>	<b>2.8211</b>	<b>0.0105</b>	<b>1.1657</b>	<b>8.1600e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5100e-003</b>	<b>0.3173</b>		<b>1,049.6136</b>	<b>1,049.6136</b>	<b>0.0269</b>		<b>1,050.2858</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.4041</b>	<b>0.4989</b>	<b>2.8211</b>	<b>0.0105</b>	<b>1.1657</b>	<b>8.1600e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5100e-003</b>	<b>0.3173</b>		<b>1,049.6136</b>	<b>1,049.6136</b>	<b>0.0269</b>		<b>1,050.2858</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
NaturalGas Unmitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564



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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	lb/day										lb/day					
Industrial Park	2046.77	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04677	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	lb/day										lb/day					
Mitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</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	lb/day										lb/day					
Architectural Coating	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**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
Off-Highway Tractors	2	4.00	365	200	0.44	Diesel
Rough Terrain Forklifts	16	8.00	365	100	0.40	Diesel

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**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					
Off-Highway Tractors	0.2621	2.1377	1.7610	7.5500e-003		0.0763	0.0763		0.0702	0.0702		730.5355	730.5355	0.2363		736.4423
Rough Terrain Forklifts	1.6383	21.6037	36.6248	0.0552		0.6580	0.6580		0.6053	0.6053		5,339.7794	5,339.7794	1.7270		5,382.9542
<b>Total</b>	<b>1.9003</b>	<b>23.7414</b>	<b>38.3858</b>	<b>0.0627</b>		<b>0.7342</b>	<b>0.7342</b>		<b>0.6755</b>	<b>0.6755</b>		<b>6,070.3149</b>	<b>6,070.3149</b>	<b>1.9633</b>		<b>6,119.3965</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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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

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Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Per MM-AQ-2, Tier 4 Interim equipment

Area Mitigation -

Energy Mitigation -

Water Mitigation - water efficient fixtures and irrigation system

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA





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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00

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tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

**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
Year	tons/yr										MT/yr					
2021	0.1518	1.9371	1.0020	3.2100e-003	0.5904	0.0680	0.6583	0.1834	0.0628	0.2462	0.0000	297.3901	297.3901	0.0558	0.0000	298.7858
2022	0.5826	5.3469	4.9958	0.0174	0.9757	0.1403	1.1160	0.2785	0.1312	0.4097	0.0000	1,599.0473	1,599.0473	0.1604	0.0000	1,603.0562
2023	0.9946	3.2776	4.0114	0.0136	0.7284	0.0888	0.8172	0.1965	0.0834	0.2798	0.0000	1,253.0640	1,253.0640	0.1077	0.0000	1,255.7559
2024	1.9475	0.0458	0.1249	3.6000e-004	0.0303	1.8300e-003	0.0322	8.0700e-003	1.8100e-003	9.8800e-003	0.0000	32.4327	32.4327	1.0300e-003	0.0000	32.4585
<b>Maximum</b>	<b>1.9475</b>	<b>5.3469</b>	<b>4.9958</b>	<b>0.0174</b>	<b>0.9757</b>	<b>0.1403</b>	<b>1.1160</b>	<b>0.2785</b>	<b>0.1312</b>	<b>0.4097</b>	<b>0.0000</b>	<b>1,599.0473</b>	<b>1,599.0473</b>	<b>0.1604</b>	<b>0.0000</b>	<b>1,603.0562</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0445	1.0296	1.1250	3.2100e-003	0.2980	4.2900e-003	0.3023	0.0911	4.2300e-003	0.0953	0.0000	297.3899	297.3899	0.0558	0.0000	298.7857
2022	0.3870	4.2753	5.3414	0.0174	0.8921	0.0217	0.9138	0.2475	0.0211	0.2686	0.0000	1,599.0468	1,599.0468	0.1604	0.0000	1,603.0557
2023	0.8723	2.9084	4.2301	0.0136	0.7284	0.0154	0.7438	0.1965	0.0150	0.2115	0.0000	1,253.0637	1,253.0637	0.1077	0.0000	1,255.7556
2024	1.9442	0.0416	0.1254	3.6000e-004	0.0303	3.2000e-004	0.0306	8.0700e-003	3.0000e-004	8.3700e-003	0.0000	32.4327	32.4327	1.0300e-003	0.0000	32.4585
<b>Maximum</b>	<b>1.9442</b>	<b>4.2753</b>	<b>5.3414</b>	<b>0.0174</b>	<b>0.8921</b>	<b>0.0217</b>	<b>0.9138</b>	<b>0.2475</b>	<b>0.0211</b>	<b>0.2686</b>	<b>0.0000</b>	<b>1,599.0468</b>	<b>1,599.0468</b>	<b>0.1604</b>	<b>0.0000</b>	<b>1,603.0557</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>11.66</b>	<b>22.18</b>	<b>-6.79</b>	<b>0.00</b>	<b>16.17</b>	<b>86.04</b>	<b>24.13</b>	<b>18.51</b>	<b>85.43</b>	<b>38.26</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-4-2021	1-3-2022	2.1405	1.0980
2	1-4-2022	4-3-2022	2.0064	1.3502
3	4-4-2022	7-3-2022	1.2685	1.0776
4	7-4-2022	10-3-2022	1.2828	1.0897
5	10-4-2022	1-3-2023	1.2846	1.0930
6	1-4-2023	4-3-2023	1.0653	0.9203
7	4-4-2023	7-3-2023	1.0700	0.9234
8	7-4-2023	10-3-2023	1.0820	0.9337

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9	10-4-2023	1-3-2024	1.1252	1.0795
10	1-4-2024	4-3-2024	1.8812	1.8741
		Highest	2.1405	1.8741

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	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Energy	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	111.3710	0.0000	111.3710	6.5818	0.0000	275.9169
Water						0.0000	0.0000		0.0000	0.0000	37.7294	0.0000	37.7294	3.8752	0.0915	161.8760
<b>Total</b>	<b>2.1598</b>	<b>0.0660</b>	<b>0.0699</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>149.1004</b>	<b>71.7301</b>	<b>220.8305</b>	<b>10.4585</b>	<b>0.0928</b>	<b>509.9509</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Energy	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	111.3710	0.0000	111.3710	6.5818	0.0000	275.9169
Water						0.0000	0.0000		0.0000	0.0000	30.1835	0.0000	30.1835	3.1001	0.0732	129.5008
<b>Total</b>	<b>2.1598</b>	<b>0.0660</b>	<b>0.0699</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>141.5545</b>	<b>71.7301</b>	<b>213.2846</b>	<b>9.6834</b>	<b>0.0745</b>	<b>477.5757</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.06	0.00	3.42	7.41	19.72	6.35

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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					0.2440	0.0000	0.2440	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.2440</b>	<b>0.0233</b>	<b>0.2673</b>	<b>0.0370</b>	<b>0.0216</b>	<b>0.0586</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>



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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	1.7000e-004	5.8100e-003	1.4400e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4649	1.4649	9.0000e-005	0.0000	1.4672
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.4500e-003</b>	<b>0.3005</b>	<b>0.0722</b>	<b>9.1000e-004</b>	<b>0.0224</b>	<b>9.2000e-004</b>	<b>0.0233</b>	<b>6.1300e-003</b>	<b>8.8000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>87.9861</b>	<b>87.9861</b>	<b>5.9200e-003</b>	<b>0.0000</b>	<b>88.1342</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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7600e-003	0.2034	0.3701	5.8000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>8.7600e-003</b>	<b>0.2034</b>	<b>0.3701</b>	<b>5.8000e-004</b>	<b>0.1098</b>	<b>9.2000e-004</b>	<b>0.1107</b>	<b>0.0166</b>	<b>9.2000e-004</b>	<b>0.0176</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	1.7000e-004	5.8100e-003	1.4400e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4649	1.4649	9.0000e-005	0.0000	1.4672
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.4500e-003</b>	<b>0.3005</b>	<b>0.0722</b>	<b>9.1000e-004</b>	<b>0.0224</b>	<b>9.2000e-004</b>	<b>0.0233</b>	<b>6.1300e-003</b>	<b>8.8000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>87.9861</b>	<b>87.9861</b>	<b>5.9200e-003</b>	<b>0.0000</b>	<b>88.1342</b>

**3.3 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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>

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**3.3 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8700e-003	9.6000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9766	0.9766	6.0000e-005	0.0000	0.9781
Worker	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>8.6000e-004</b>	<b>4.4200e-003</b>	<b>7.2300e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>2.2500e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.6968</b>	<b>2.6968</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.6995</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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9700e-003	0.1216	0.2296	3.8000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>6.9700e-003</b>	<b>0.1216</b>	<b>0.2296</b>	<b>3.8000e-004</b>	<b>0.0813</b>	<b>6.2000e-004</b>	<b>0.0819</b>	<b>0.0447</b>	<b>6.2000e-004</b>	<b>0.0453</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

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**3.3 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8700e-003	9.6000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9766	0.9766	6.0000e-005	0.0000	0.9781
Worker	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>8.6000e-004</b>	<b>4.4200e-003</b>	<b>7.2300e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>	<b>2.2500e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.6968</b>	<b>2.6968</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.6995</b>

**3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.1069	0.0000	0.1069	0.0316	0.0000	0.0316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0489	0.5565	0.3401	7.3000e-004		0.0227	0.0227		0.0209	0.0209	0.0000	64.0272	64.0272	0.0207	0.0000	64.5449
<b>Total</b>	<b>0.0489</b>	<b>0.5565</b>	<b>0.3401</b>	<b>7.3000e-004</b>	<b>0.1069</b>	<b>0.0227</b>	<b>0.1296</b>	<b>0.0316</b>	<b>0.0209</b>	<b>0.0525</b>	<b>0.0000</b>	<b>64.0272</b>	<b>64.0272</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5449</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
Vendor	9.0000e-005	2.9000e-003	7.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7324	0.7324	5.0000e-005	0.0000	0.7336
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.2400e-003</b>	<b>0.1991</b>	<b>0.0475</b>	<b>6.0000e-004</b>	<b>0.0342</b>	<b>6.1000e-004</b>	<b>0.0348</b>	<b>8.8100e-003</b>	<b>5.9000e-004</b>	<b>9.3900e-003</b>	<b>0.0000</b>	<b>58.2430</b>	<b>58.2430</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>58.3412</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					0.0481	0.0000	0.0481	0.0142	0.0000	0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.2006	0.3984	7.3000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	64.0272	64.0272	0.0207	0.0000	64.5449
<b>Total</b>	<b>0.0122</b>	<b>0.2006</b>	<b>0.3984</b>	<b>7.3000e-004</b>	<b>0.0481</b>	<b>1.1900e-003</b>	<b>0.0493</b>	<b>0.0142</b>	<b>1.1900e-003</b>	<b>0.0154</b>	<b>0.0000</b>	<b>64.0272</b>	<b>64.0272</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5449</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
Vendor	9.0000e-005	2.9000e-003	7.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7324	0.7324	5.0000e-005	0.0000	0.7336
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.2400e-003</b>	<b>0.1991</b>	<b>0.0475</b>	<b>6.0000e-004</b>	<b>0.0342</b>	<b>6.1000e-004</b>	<b>0.0348</b>	<b>8.8100e-003</b>	<b>5.9000e-004</b>	<b>9.3900e-003</b>	<b>0.0000</b>	<b>58.2430</b>	<b>58.2430</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>58.3412</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1520	0.0000	0.1520	0.0564	0.0000	0.0564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0852	0.9318	0.6249	1.4600e-003		0.0377	0.0377		0.0346	0.0346	0.0000	128.2160	128.2160	0.0415	0.0000	129.2527
<b>Total</b>	<b>0.0852</b>	<b>0.9318</b>	<b>0.6249</b>	<b>1.4600e-003</b>	<b>0.1520</b>	<b>0.0377</b>	<b>0.1897</b>	<b>0.0564</b>	<b>0.0346</b>	<b>0.0910</b>	<b>0.0000</b>	<b>128.2160</b>	<b>128.2160</b>	<b>0.0415</b>	<b>0.0000</b>	<b>129.2527</b>

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**3.4 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	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
Vendor	1.6000e-004	5.5000e-003	1.3600e-003	1.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4520	1.4520	9.0000e-005	0.0000	1.4542
Worker	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0118</b>	<b>0.3676</b>	<b>0.0930</b>	<b>1.1700e-003</b>	<b>0.0392</b>	<b>1.0500e-003</b>	<b>0.0403</b>	<b>0.0105</b>	<b>1.0100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>115.0402</b>	<b>115.0402</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>115.2325</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					0.0684	0.0000	0.0684	0.0254	0.0000	0.0254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.4011	0.7968	1.4600e-003		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	128.2158	128.2158	0.0415	0.0000	129.2525
<b>Total</b>	<b>0.0244</b>	<b>0.4011</b>	<b>0.7968</b>	<b>1.4600e-003</b>	<b>0.0684</b>	<b>2.3900e-003</b>	<b>0.0708</b>	<b>0.0254</b>	<b>2.3900e-003</b>	<b>0.0278</b>	<b>0.0000</b>	<b>128.2158</b>	<b>128.2158</b>	<b>0.0415</b>	<b>0.0000</b>	<b>129.2525</b>

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**3.4 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	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
Vendor	1.6000e-004	5.5000e-003	1.3600e-003	1.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4520	1.4520	9.0000e-005	0.0000	1.4542
Worker	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0118</b>	<b>0.3676</b>	<b>0.0930</b>	<b>1.1700e-003</b>	<b>0.0392</b>	<b>1.0500e-003</b>	<b>0.0403</b>	<b>0.0105</b>	<b>1.0100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>115.0402</b>	<b>115.0402</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>115.2325</b>

**3.5 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	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4840</b>	<b>266.4840</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0801</b>



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**3.5 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	0.0608	2.0891	0.5163	5.6900e-003	0.1435	3.8400e-003	0.1474	0.0414	3.6700e-003	0.0451	0.0000	551.0270	551.0270	0.0338	0.0000	551.8728
Worker	0.2287	0.1626	1.8798	5.9500e-003	0.6409	4.6700e-003	0.6456	0.1702	4.3000e-003	0.1745	0.0000	538.2801	538.2801	0.0135	0.0000	538.6182
<b>Total</b>	<b>0.2894</b>	<b>2.2516</b>	<b>2.3961</b>	<b>0.0116</b>	<b>0.7845</b>	<b>8.5100e-003</b>	<b>0.7930</b>	<b>0.2116</b>	<b>7.9700e-003</b>	<b>0.2196</b>	<b>0.0000</b>	<b>1,089.3071</b>	<b>1,089.3071</b>	<b>0.0474</b>	<b>0.0000</b>	<b>1,090.4910</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	0.0614	1.2549	2.0555	3.1000e-003		9.7300e-003	9.7300e-003		9.7300e-003	9.7300e-003	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
<b>Total</b>	<b>0.0614</b>	<b>1.2549</b>	<b>2.0555</b>	<b>3.1000e-003</b>		<b>9.7300e-003</b>	<b>9.7300e-003</b>		<b>9.7300e-003</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>266.4837</b>	<b>266.4837</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0798</b>

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**3.5 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	0.0608	2.0891	0.5163	5.6900e-003	0.1435	3.8400e-003	0.1474	0.0414	3.6700e-003	0.0451	0.0000	551.0270	551.0270	0.0338	0.0000	551.8728
Worker	0.2287	0.1626	1.8798	5.9500e-003	0.6409	4.6700e-003	0.6456	0.1702	4.3000e-003	0.1745	0.0000	538.2801	538.2801	0.0135	0.0000	538.6182
<b>Total</b>	<b>0.2894</b>	<b>2.2516</b>	<b>2.3961</b>	<b>0.0116</b>	<b>0.7845</b>	<b>8.5100e-003</b>	<b>0.7930</b>	<b>0.2116</b>	<b>7.9700e-003</b>	<b>0.2196</b>	<b>0.0000</b>	<b>1,089.3071</b>	<b>1,089.3071</b>	<b>0.0474</b>	<b>0.0000</b>	<b>1,090.4910</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3950	243.3950	0.0579	0.0000	244.8425
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3950</b>	<b>243.3950</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8425</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.4352	0.4214	5.0300e-003	0.1310	1.6300e-003	0.1327	0.0378	1.5600e-003	0.0394	0.0000	487.9465	487.9465	0.0269	0.0000	488.6179
Worker	0.1966	0.1343	1.5825	5.2300e-003	0.5852	4.1500e-003	0.5894	0.1554	3.8200e-003	0.1592	0.0000	473.1440	473.1440	0.0111	0.0000	473.4222
<b>Total</b>	<b>0.2379</b>	<b>1.5695</b>	<b>2.0039</b>	<b>0.0103</b>	<b>0.7163</b>	<b>5.7800e-003</b>	<b>0.7220</b>	<b>0.1932</b>	<b>5.3800e-003</b>	<b>0.1986</b>	<b>0.0000</b>	<b>961.0906</b>	<b>961.0906</b>	<b>0.0380</b>	<b>0.0000</b>	<b>962.0401</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	0.0560	1.1458	1.8767	2.8300e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	243.3947	243.3947	0.0579	0.0000	244.8422
<b>Total</b>	<b>0.0560</b>	<b>1.1458</b>	<b>1.8767</b>	<b>2.8300e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>	<b>0.0000</b>	<b>243.3947</b>	<b>243.3947</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8422</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0414	1.4352	0.4214	5.0300e-003	0.1310	1.6300e-003	0.1327	0.0378	1.5600e-003	0.0394	0.0000	487.9465	487.9465	0.0269	0.0000	488.6179
Worker	0.1966	0.1343	1.5825	5.2300e-003	0.5852	4.1500e-003	0.5894	0.1554	3.8200e-003	0.1592	0.0000	473.1440	473.1440	0.0111	0.0000	473.4222
<b>Total</b>	<b>0.2379</b>	<b>1.5695</b>	<b>2.0039</b>	<b>0.0103</b>	<b>0.7163</b>	<b>5.7800e-003</b>	<b>0.7220</b>	<b>0.1932</b>	<b>5.3800e-003</b>	<b>0.1986</b>	<b>0.0000</b>	<b>961.0906</b>	<b>961.0906</b>	<b>0.0380</b>	<b>0.0000</b>	<b>962.0401</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.8300e-003	1.4200e-003	2.0000e-005	4.4000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.6429	1.6429	9.0000e-005	0.0000	1.6452
Worker	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.1700e-003</b>	<b>5.5300e-003</b>	<b>9.7300e-003</b>	<b>5.0000e-005</b>	<b>3.5100e-003</b>	<b>3.0000e-005</b>	<b>3.5400e-003</b>	<b>9.5000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>4.1266</b>	<b>4.1266</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.1303</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	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0267</b>	<b>0.1757</b>	<b>0.3027</b>	<b>4.0000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.8300e-003	1.4200e-003	2.0000e-005	4.4000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.3000e-004	0.0000	1.6429	1.6429	9.0000e-005	0.0000	1.6452
Worker	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.1700e-003</b>	<b>5.5300e-003</b>	<b>9.7300e-003</b>	<b>5.0000e-005</b>	<b>3.5100e-003</b>	<b>3.0000e-005</b>	<b>3.5400e-003</b>	<b>9.5000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>4.1266</b>	<b>4.1266</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.1303</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.5486</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.0700e-003	6.1000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7041	0.7041	4.0000e-005	0.0000	0.7051
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8800e-003</b>	<b>4.0000e-003</b>	<b>0.0233</b>	<b>9.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>5.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4899</b>	<b>7.4899</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>7.4949</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	0.5471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	7.9500e-003	0.0137	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.5475</b>	<b>7.9500e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.0700e-003	6.1000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7041	0.7041	4.0000e-005	0.0000	0.7051
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8800e-003</b>	<b>4.0000e-003</b>	<b>0.0233</b>	<b>9.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>5.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4899</b>	<b>7.4899</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>7.4949</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7900e-003	0.0323	0.0480	8.0000e-005		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	6.7661	6.7661	3.8000e-004	0.0000	6.7757
<b>Total</b>	<b>1.9379</b>	<b>0.0323</b>	<b>0.0480</b>	<b>8.0000e-005</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.7757</b>



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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.3000e-003	2.0900e-003	3.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4791	2.4791	1.3000e-004	0.0000	2.4824
Worker	9.4400e-003	6.2000e-003	0.0748	2.6000e-004	0.0297	2.1000e-004	0.0299	7.8800e-003	1.9000e-004	8.0700e-003	0.0000	23.1875	23.1875	5.2000e-004	0.0000	23.2004
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0135</b>	<b>0.0769</b>	<b>2.9000e-004</b>	<b>0.0303</b>	<b>2.2000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>2.0000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>25.6666</b>	<b>25.6666</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>25.6828</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	1.9331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	0.0281	0.0486	8.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.7661	6.7661	3.8000e-004	0.0000	6.7756
<b>Total</b>	<b>1.9346</b>	<b>0.0281</b>	<b>0.0486</b>	<b>8.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>6.7661</b>	<b>6.7661</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>6.7756</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	7.3000e-003	2.0900e-003	3.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4791	2.4791	1.3000e-004	0.0000	2.4824
Worker	9.4400e-003	6.2000e-003	0.0748	2.6000e-004	0.0297	2.1000e-004	0.0299	7.8800e-003	1.9000e-004	8.0700e-003	0.0000	23.1875	23.1875	5.2000e-004	0.0000	23.2004
<b>Total</b>	<b>9.6500e-003</b>	<b>0.0135</b>	<b>0.0769</b>	<b>2.9000e-004</b>	<b>0.0303</b>	<b>2.2000e-004</b>	<b>0.0305</b>	<b>8.0700e-003</b>	<b>2.0000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>25.6666</b>	<b>25.6666</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>25.6828</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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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					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278
NaturalGas Unmitigated	7.2500e-003	0.0659	0.0553	4.0000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	71.7017	71.7017	1.3700e-003	1.3100e-003	72.1278

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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					
Industrial Park	747071	4.0300e-003	0.0366	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.8666	39.8666	7.6000e-004	7.3000e-004	40.1035
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	596568	3.2200e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8351	31.8351	6.1000e-004	5.8000e-004	32.0243
<b>Total</b>		<b>7.2500e-003</b>	<b>0.0659</b>	<b>0.0553</b>	<b>4.0000e-004</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>71.7017</b>	<b>71.7017</b>	<b>1.3700e-003</b>	<b>1.3100e-003</b>	<b>72.1278</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	747071	4.0300e-003	0.0366	0.0308	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	39.8666	39.8666	7.6000e-004	7.3000e-004	40.1035
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	596568	3.2200e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8351	31.8351	6.1000e-004	5.8000e-004	32.0243
<b>Total</b>		<b>7.2500e-003</b>	<b>0.0659</b>	<b>0.0553</b>	<b>4.0000e-004</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>71.7017</b>	<b>71.7017</b>	<b>1.3700e-003</b>	<b>1.3100e-003</b>	<b>72.1278</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			
Industrial Park	1.99887e+006	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	688698	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.99887e+006	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	688698	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



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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					
Mitigated	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
Unmitigated	2.1526	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302

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	0.2480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9032					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
<b>Total</b>	<b>2.1526</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0284</b>	<b>0.0284</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0302</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	0.2480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9032					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0284	0.0284	7.0000e-005	0.0000	0.0302
<b>Total</b>	<b>2.1526</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0284</b>	<b>0.0284</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0302</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.1835	3.1001	0.0732	129.5008
Unmitigated	37.7294	3.8752	0.0915	161.8760

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	50.2899 / 0	15.9547	1.6387	0.0387	68.4527
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	68.635 / 0	21.7747	2.2365	0.0528	93.4233
<b>Total</b>		<b>37.7294</b>	<b>3.8752</b>	<b>0.0915</b>	<b>161.8760</b>

## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	40.2319 / 0	12.7637	1.3110	0.0310	54.7622
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54.908 / 0	17.4198	1.7892	0.0423	74.7386
<b>Total</b>		<b>30.1835</b>	<b>3.1001</b>	<b>0.0732</b>	<b>129.5008</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	111.3710	6.5818	0.0000	275.9169
Unmitigated	111.3710	6.5818	0.0000	275.9169

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	269.66	54.7385	3.2350	0.0000	135.6124
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.99	56.6325	3.3469	0.0000	140.3045
<b>Total</b>		<b>111.3710</b>	<b>6.5818</b>	<b>0.0000</b>	<b>275.9169</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	269.66	54.7385	3.2350	0.0000	135.6124
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	278.99	56.6325	3.3469	0.0000	140.3045
<b>Total</b>		<b>111.3710</b>	<b>6.5818</b>	<b>0.0000</b>	<b>275.9169</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**Oakmont Mission and Ramona Industrial Park Mitigated**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Per MM-AQ-2, Tier 4 Interim equipment

Area Mitigation -

Energy Mitigation -

Water Mitigation - water efficient fixtures and irrigation system

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA



## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

**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
Year	lb/day										lb/day					
2021	7.3433	99.9702	51.5553	0.1771	18.2931	3.1065	20.3398	9.9914	2.8609	11.8744	0.0000	18,047.3063	18,047.3063	3.6102	0.0000	18,137.5618
2022	6.4573	85.9387	47.7423	0.1762	11.4247	2.5802	14.0049	4.3189	2.3763	6.6952	0.0000	17,952.3097	17,952.3097	3.6032	0.0000	18,042.3899
2023	73.5266	29.0734	36.4020	0.1278	6.9455	0.7545	7.7000	1.8707	0.7094	2.5801	0.0000	12,962.0760	12,962.0760	1.0051	0.0000	12,987.2028
2024	73.4952	1.6999	4.9501	0.0141	1.1657	0.0691	1.2348	0.3097	0.0684	0.3782	0.0000	1,399.9085	1,399.9085	0.0440	0.0000	1,401.0083
<b>Maximum</b>	<b>73.5266</b>	<b>99.9702</b>	<b>51.5553</b>	<b>0.1771</b>	<b>18.2931</b>	<b>3.1065</b>	<b>20.3398</b>	<b>9.9914</b>	<b>2.8609</b>	<b>11.8744</b>	<b>0.0000</b>	<b>18,047.3063</b>	<b>18,047.3063</b>	<b>3.6102</b>	<b>0.0000</b>	<b>18,137.5618</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	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>11.8380</b>	<b>0.3620</b>	<b>0.4197</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>		<b>433.3329</b>	<b>433.3329</b>	<b>8.9500e-003</b>	<b>7.9400e-003</b>	<b>435.9228</b>

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	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>11.8380</b>	<b>0.3620</b>	<b>0.4197</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>		<b>433.3329</b>	<b>433.3329</b>	<b>8.9500e-003</b>	<b>7.9400e-003</b>	<b>435.9228</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	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	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

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
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6243</b>	<b>19.4501</b>	<b>4.7204</b>	<b>0.0604</b>	<b>1.5185</b>	<b>0.0611</b>	<b>1.5795</b>	<b>0.4149</b>	<b>0.0584</b>	<b>0.4733</b>		<b>6,524.2974</b>	<b>6,524.2974</b>	<b>0.4275</b>		<b>6,534.9857</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					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>0.5841</b>	<b>13.5576</b>	<b>24.6739</b>	<b>0.0388</b>	<b>7.3204</b>	<b>0.0616</b>	<b>7.3820</b>	<b>1.1084</b>	<b>0.0616</b>	<b>1.1700</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6243</b>	<b>19.4501</b>	<b>4.7204</b>	<b>0.0604</b>	<b>1.5185</b>	<b>0.0611</b>	<b>1.5795</b>	<b>0.4149</b>	<b>0.0584</b>	<b>0.4733</b>		<b>6,524.2974</b>	<b>6,524.2974</b>	<b>0.4275</b>		<b>6,534.9857</b>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0871</b>	<b>0.4308</b>	<b>0.7686</b>	<b>3.0200e-003</b>	<b>0.2268</b>	<b>2.2500e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.0900e-003</b>	<b>0.0628</b>		<b>308.3080</b>	<b>308.3080</b>	<b>0.0120</b>		<b>308.6068</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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0380</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0871</b>	<b>0.4308</b>	<b>0.7686</b>	<b>3.0200e-003</b>	<b>0.2268</b>	<b>2.2500e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.0900e-003</b>	<b>0.0628</b>		<b>308.3080</b>	<b>308.3080</b>	<b>0.0120</b>		<b>308.6068</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.3941	9,410.3941	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.3941</b>	<b>9,410.3941</b>	<b>3.0435</b>		<b>9,486.4819</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8221</b>	<b>25.7689</b>	<b>6.2064</b>	<b>0.0800</b>	<b>4.6466</b>	<b>0.0809</b>	<b>4.7276</b>	<b>1.1961</b>	<b>0.0774</b>	<b>1.2734</b>		<b>8,636.912 2</b>	<b>8,636.912 2</b>	<b>0.5667</b>		<b>8,651.080 0</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	1.6296	26.7412	53.1206	0.0972		0.1592	0.1592		0.1592	0.1592	0.0000	9,410.394 0	9,410.394 0	3.0435		9,486.481 9
<b>Total</b>	<b>1.6296</b>	<b>26.7412</b>	<b>53.1206</b>	<b>0.0972</b>	<b>3.9438</b>	<b>0.1592</b>	<b>4.1029</b>	<b>1.6246</b>	<b>0.1592</b>	<b>1.7838</b>	<b>0.0000</b>	<b>9,410.394 0</b>	<b>9,410.394 0</b>	<b>3.0435</b>		<b>9,486.481 9</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8221</b>	<b>25.7689</b>	<b>6.2064</b>	<b>0.0800</b>	<b>4.6466</b>	<b>0.0809</b>	<b>4.7276</b>	<b>1.1961</b>	<b>0.0774</b>	<b>1.2734</b>		<b>8,636.912 2</b>	<b>8,636.912 2</b>	<b>0.5667</b>		<b>8,651.080 0</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.261 7	9,422.261 7	3.0474		9,498.445 5
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>		<b>9,498.445 5</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.4 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	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7796</b>	<b>23.8187</b>	<b>6.0836</b>	<b>0.0789</b>	<b>2.6608</b>	<b>0.0698</b>	<b>2.7306</b>	<b>0.7086</b>	<b>0.0667</b>	<b>0.7753</b>		<b>8,530.0480</b>	<b>8,530.0480</b>	<b>0.5559</b>		<b>8,543.9445</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	1.6296	26.7412	53.1206	0.0973		0.1592	0.1592		0.1592	0.1592	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>1.6296</b>	<b>26.7412</b>	<b>53.1206</b>	<b>0.0973</b>	<b>3.9438</b>	<b>0.1592</b>	<b>4.1029</b>	<b>1.6246</b>	<b>0.1592</b>	<b>1.7838</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.4 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	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7796</b>	<b>23.8187</b>	<b>6.0836</b>	<b>0.0789</b>	<b>2.6608</b>	<b>0.0698</b>	<b>2.7306</b>	<b>0.7086</b>	<b>0.0667</b>	<b>0.7753</b>		<b>8,530.0480</b>	<b>8,530.0480</b>	<b>0.5559</b>		<b>8,543.9445</b>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.5 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
Vendor	0.5167	17.9256	4.2352	0.0501	1.2672	0.0330	1.3002	0.3648	0.0315	0.3963		5,347.1707	5,347.1707	0.3141		5,355.0239
Worker	2.0114	1.2563	17.6963	0.0544	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,424.0376	5,424.0376	0.1367		5,427.4557
<b>Total</b>	<b>2.5281</b>	<b>19.1818</b>	<b>21.9315</b>	<b>0.1045</b>	<b>6.9455</b>	<b>0.0736</b>	<b>7.0190</b>	<b>1.8707</b>	<b>0.0689</b>	<b>1.9396</b>		<b>10,771.2082</b>	<b>10,771.2082</b>	<b>0.4509</b>		<b>10,782.4796</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	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.5 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
Vendor	0.5167	17.9256	4.2352	0.0501	1.2672	0.0330	1.3002	0.3648	0.0315	0.3963		5,347.1707	5,347.1707	0.3141		5,355.0239
Worker	2.0114	1.2563	17.6963	0.0544	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,424.0376	5,424.0376	0.1367		5,427.4557
<b>Total</b>	<b>2.5281</b>	<b>19.1818</b>	<b>21.9315</b>	<b>0.1045</b>	<b>6.9455</b>	<b>0.0736</b>	<b>7.0190</b>	<b>1.8707</b>	<b>0.0689</b>	<b>1.9396</b>		<b>10,771.2082</b>	<b>10,771.2082</b>	<b>0.4509</b>		<b>10,782.4796</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.3855	13.5518	3.8158	0.0485	1.2672	0.0152	1.2825	0.3648	0.0146	0.3794		5,184.9808	5,184.9808	0.2739		5,191.8288
Worker	1.8912	1.1367	16.3422	0.0524	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		5,221.8853	5,221.8853	0.1233		5,224.9680
<b>Total</b>	<b>2.2767</b>	<b>14.6886</b>	<b>20.1580</b>	<b>0.1008</b>	<b>6.9455</b>	<b>0.0548</b>	<b>7.0002</b>	<b>1.8707</b>	<b>0.0510</b>	<b>1.9217</b>		<b>10,406.8661</b>	<b>10,406.8661</b>	<b>0.3972</b>		<b>10,416.7968</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	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.3855	13.5518	3.8158	0.0485	1.2672	0.0152	1.2825	0.3648	0.0146	0.3794		5,184.9808	5,184.9808	0.2739		5,191.8288
Worker	1.8912	1.1367	16.3422	0.0524	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		5,221.8853	5,221.8853	0.1233		5,224.9680
<b>Total</b>	<b>2.2767</b>	<b>14.6886</b>	<b>20.1580</b>	<b>0.1008</b>	<b>6.9455</b>	<b>0.0548</b>	<b>7.0002</b>	<b>1.8707</b>	<b>0.0510</b>	<b>1.9217</b>		<b>10,406.8661</b>	<b>10,406.8661</b>	<b>0.3972</b>		<b>10,416.7968</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0674</b>	<b>0.3096</b>	<b>0.5918</b>	<b>2.6300e-003</b>	<b>0.2044</b>	<b>1.5600e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4400e-003</b>	<b>0.0562</b>		<b>269.2159</b>	<b>269.2159</b>	<b>9.4100e-003</b>		<b>269.4514</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	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5273</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0674</b>	<b>0.3096</b>	<b>0.5918</b>	<b>2.6300e-003</b>	<b>0.2044</b>	<b>1.5600e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4400e-003</b>	<b>0.0562</b>		<b>269.2159</b>	<b>269.2159</b>	<b>9.4100e-003</b>		<b>269.4514</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3875</b>	<b>0.5020</b>	<b>3.3584</b>	<b>0.0115</b>	<b>1.1657</b>	<b>8.2500e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6000e-003</b>	<b>0.3173</b>		<b>1,153.2359</b>	<b>1,153.2359</b>	<b>0.0303</b>		<b>1,153.9932</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.0019</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.7900e-003	0.2738	0.0771	9.8000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.7471	104.7471	5.5300e-003		104.8854
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3875</b>	<b>0.5020</b>	<b>3.3584</b>	<b>0.0115</b>	<b>1.1657</b>	<b>8.2500e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6000e-003</b>	<b>0.3173</b>		<b>1,153.2359</b>	<b>1,153.2359</b>	<b>0.0303</b>		<b>1,153.9932</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3670</b>	<b>0.4811</b>	<b>3.1400</b>	<b>0.0111</b>	<b>1.1657</b>	<b>8.1400e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5000e-003</b>	<b>0.3172</b>		<b>1,118.4604</b>	<b>1,118.4604</b>	<b>0.0282</b>		<b>1,119.1640</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.0019</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3670</b>	<b>0.4811</b>	<b>3.1400</b>	<b>0.0111</b>	<b>1.1657</b>	<b>8.1400e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5000e-003</b>	<b>0.3172</b>		<b>1,118.4604</b>	<b>1,118.4604</b>	<b>0.0282</b>		<b>1,119.1640</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
NaturalGas Unmitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**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					
Industrial Park	2046.77	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04677	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

**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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Summer

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

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**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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Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**Oakmont Mission and Ramona Industrial Park Mitigated**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Per MM-AQ-2, Tier 4 Interim equipment

Area Mitigation -

Energy Mitigation -

Water Mitigation - water efficient fixtures and irrigation system

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA



## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 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
Year	lb/day										lb/day					
2021	7.3724	100.2754	51.8839	0.1756	18.2931	3.1078	20.3398	9.9914	2.8621	11.8744	0.0000	17,876.1569	17,876.1569	3.6337	0.0000	17,966.9996
2022	6.4852	86.1924	48.0565	0.1746	11.4247	2.5813	14.0060	4.3189	2.3773	6.6962	0.0000	17,782.2057	17,782.2057	3.6256	0.0000	17,872.8455
2023	73.5645	29.0933	35.0672	0.1230	6.9455	0.7553	7.7007	1.8707	0.7101	2.5808	0.0000	12,474.9566	12,474.9566	1.0145	0.0000	12,500.3183
2024	73.5322	1.7177	4.6312	0.0134	1.1657	0.0691	1.2348	0.3097	0.0684	0.3782	0.0000	1,331.0616	1,331.0616	0.0427	0.0000	1,332.1301
<b>Maximum</b>	<b>73.5645</b>	<b>100.2754</b>	<b>51.8839</b>	<b>0.1756</b>	<b>18.2931</b>	<b>3.1078</b>	<b>20.3398</b>	<b>9.9914</b>	<b>2.8621</b>	<b>11.8744</b>	<b>0.0000</b>	<b>17,876.1569</b>	<b>17,876.1569</b>	<b>3.6337</b>	<b>0.0000</b>	<b>17,966.9996</b>





Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	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>11.8380</b>	<b>0.3620</b>	<b>0.4197</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>		<b>433.3329</b>	<b>433.3329</b>	<b>8.9500e-003</b>	<b>7.9400e-003</b>	<b>435.9228</b>

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
Mobile	0.0000	0.0000	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>11.8380</b>	<b>0.3620</b>	<b>0.4197</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>	<b>0.0000</b>	<b>0.0278</b>	<b>0.0278</b>		<b>433.3329</b>	<b>433.3329</b>	<b>8.9500e-003</b>	<b>7.9400e-003</b>	<b>435.9228</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	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	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

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
Demolition	6	16.00	4.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	20.00	4.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	508.00	198.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6467</b>	<b>19.6792</b>	<b>4.9662</b>	<b>0.0592</b>	<b>1.5185</b>	<b>0.0620</b>	<b>1.5805</b>	<b>0.4149</b>	<b>0.0593</b>	<b>0.4742</b>		<b>6,394.2758</b>	<b>6,394.2758</b>	<b>0.4453</b>		<b>6,405.4076</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					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>0.5841</b>	<b>13.5576</b>	<b>24.6739</b>	<b>0.0388</b>	<b>7.3204</b>	<b>0.0616</b>	<b>7.3820</b>	<b>1.1084</b>	<b>0.0616</b>	<b>1.1700</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6467</b>	<b>19.6792</b>	<b>4.9662</b>	<b>0.0592</b>	<b>1.5185</b>	<b>0.0620</b>	<b>1.5805</b>	<b>0.4149</b>	<b>0.0593</b>	<b>0.4742</b>		<b>6,394.2758</b>	<b>6,394.2758</b>	<b>0.4453</b>		<b>6,405.4076</b>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0947</b>	<b>0.4342</b>	<b>0.7107</b>	<b>2.8600e-003</b>	<b>0.2268</b>	<b>2.2700e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.1200e-003</b>	<b>0.0629</b>		<b>292.2403</b>	<b>292.2403</b>	<b>0.0121</b>		<b>292.5422</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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0380</b>	<b>8.1298</b>	<b>0.0621</b>	<b>8.1919</b>	<b>4.4688</b>	<b>0.0621</b>	<b>4.5309</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0947</b>	<b>0.4342</b>	<b>0.7107</b>	<b>2.8600e-003</b>	<b>0.2268</b>	<b>2.2700e-003</b>	<b>0.2291</b>	<b>0.0607</b>	<b>2.1200e-003</b>	<b>0.0629</b>		<b>292.2403</b>	<b>292.2403</b>	<b>0.0121</b>		<b>292.5422</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.3941	9,410.3941	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.3941</b>	<b>9,410.3941</b>	<b>3.0435</b>		<b>9,486.4819</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8512</b>	<b>26.0741</b>	<b>6.5350</b>	<b>0.0784</b>	<b>4.6466</b>	<b>0.0822</b>	<b>4.7288</b>	<b>1.1961</b>	<b>0.0786</b>	<b>1.2746</b>		<b>8,465.762 8</b>	<b>8,465.762 8</b>	<b>0.5902</b>		<b>8,480.517 7</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	1.6296	26.7412	53.1206	0.0972		0.1592	0.1592		0.1592	0.1592	0.0000	9,410.394 0	9,410.394 0	3.0435		9,486.481 9
<b>Total</b>	<b>1.6296</b>	<b>26.7412</b>	<b>53.1206</b>	<b>0.0972</b>	<b>3.9438</b>	<b>0.1592</b>	<b>4.1029</b>	<b>1.6246</b>	<b>0.1592</b>	<b>1.7838</b>	<b>0.0000</b>	<b>9,410.394 0</b>	<b>9,410.394 0</b>	<b>3.0435</b>		<b>9,486.481 9</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8512</b>	<b>26.0741</b>	<b>6.5350</b>	<b>0.0784</b>	<b>4.6466</b>	<b>0.0822</b>	<b>4.7288</b>	<b>1.1961</b>	<b>0.0786</b>	<b>1.2746</b>		<b>8,465.762 8</b>	<b>8,465.762 8</b>	<b>0.5902</b>		<b>8,480.517 7</b>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.261 7	9,422.261 7	3.0474		9,498.445 5
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>		<b>9,498.445 5</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.4 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	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.8075</b>	<b>24.0724</b>	<b>6.3979</b>	<b>0.0773</b>	<b>2.6608</b>	<b>0.0709</b>	<b>2.7317</b>	<b>0.7086</b>	<b>0.0678</b>	<b>0.7764</b>		<b>8,359.9439</b>	<b>8,359.9439</b>	<b>0.5782</b>		<b>8,374.4000</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					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	1.6296	26.7412	53.1206	0.0973		0.1592	0.1592		0.1592	0.1592	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>1.6296</b>	<b>26.7412</b>	<b>53.1206</b>	<b>0.0973</b>	<b>3.9438</b>	<b>0.1592</b>	<b>4.1029</b>	<b>1.6246</b>	<b>0.1592</b>	<b>1.7838</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.4 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	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.8075</b>	<b>24.0724</b>	<b>6.3979</b>	<b>0.0773</b>	<b>2.6608</b>	<b>0.0709</b>	<b>2.7317</b>	<b>0.7086</b>	<b>0.0678</b>	<b>0.7764</b>		<b>8,359.9439</b>	<b>8,359.9439</b>	<b>0.5782</b>		<b>8,374.4000</b>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.5 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
Vendor	0.5441	17.8540	4.7420	0.0486	1.2672	0.0340	1.3013	0.3648	0.0326	0.3974		5,191.4456	5,191.4456	0.3372		5,199.8745
Worker	2.2033	1.3748	15.8737	0.0509	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,072.5655	5,072.5655	0.1273		5,075.7488
<b>Total</b>	<b>2.7474</b>	<b>19.2288</b>	<b>20.6156</b>	<b>0.0995</b>	<b>6.9455</b>	<b>0.0746</b>	<b>7.0201</b>	<b>1.8707</b>	<b>0.0699</b>	<b>1.9407</b>		<b>10,264.0112</b>	<b>10,264.0112</b>	<b>0.4645</b>		<b>10,275.6233</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	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.5 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
Vendor	0.5441	17.8540	4.7420	0.0486	1.2672	0.0340	1.3013	0.3648	0.0326	0.3974		5,191.4456	5,191.4456	0.3372		5,199.8745
Worker	2.2033	1.3748	15.8737	0.0509	5.6782	0.0406	5.7188	1.5059	0.0374	1.5433		5,072.5655	5,072.5655	0.1273		5,075.7488
<b>Total</b>	<b>2.7474</b>	<b>19.2288</b>	<b>20.6156</b>	<b>0.0995</b>	<b>6.9455</b>	<b>0.0746</b>	<b>7.0201</b>	<b>1.8707</b>	<b>0.0699</b>	<b>1.9407</b>		<b>10,264.0112</b>	<b>10,264.0112</b>	<b>0.4645</b>		<b>10,275.6233</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4061	13.4649	4.1930	0.0471	1.2672	0.0160	1.2832	0.3648	0.0153	0.3801		5,036.3608	5,036.3608	0.2919		5,043.6584
Worker	2.0780	1.2435	14.6301	0.0490	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		4,883.3859	4,883.3859	0.1147		4,886.2539
<b>Total</b>	<b>2.4841</b>	<b>14.7085</b>	<b>18.8232</b>	<b>0.0961</b>	<b>6.9455</b>	<b>0.0555</b>	<b>7.0010</b>	<b>1.8707</b>	<b>0.0517</b>	<b>1.9224</b>		<b>9,919.7467</b>	<b>9,919.7467</b>	<b>0.4066</b>		<b>9,929.9122</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	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4061	13.4649	4.1930	0.0471	1.2672	0.0160	1.2832	0.3648	0.0153	0.3801		5,036.3608	5,036.3608	0.2919		5,043.6584
Worker	2.0780	1.2435	14.6301	0.0490	5.6782	0.0395	5.7178	1.5059	0.0364	1.5423		4,883.3859	4,883.3859	0.1147		4,886.2539
<b>Total</b>	<b>2.4841</b>	<b>14.7085</b>	<b>18.8232</b>	<b>0.0961</b>	<b>6.9455</b>	<b>0.0555</b>	<b>7.0010</b>	<b>1.8707</b>	<b>0.0517</b>	<b>1.9224</b>		<b>9,919.7467</b>	<b>9,919.7467</b>	<b>0.4066</b>		<b>9,929.9122</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0737</b>	<b>0.3112</b>	<b>0.5455</b>	<b>2.4900e-003</b>	<b>0.2044</b>	<b>1.5700e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4600e-003</b>	<b>0.0563</b>		<b>255.5521</b>	<b>255.5521</b>	<b>9.5100e-003</b>		<b>255.7899</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	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5273</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0737</b>	<b>0.3112</b>	<b>0.5455</b>	<b>2.4900e-003</b>	<b>0.2044</b>	<b>1.5700e-003</b>	<b>0.2060</b>	<b>0.0548</b>	<b>1.4600e-003</b>	<b>0.0563</b>		<b>255.5521</b>	<b>255.5521</b>	<b>9.5100e-003</b>		<b>255.7899</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4254</b>	<b>0.5217</b>	<b>3.0223</b>	<b>0.0108</b>	<b>1.1657</b>	<b>8.2600e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6200e-003</b>	<b>0.3174</b>		<b>1,082.2670</b>	<b>1,082.2670</b>	<b>0.0289</b>		<b>1,082.9903</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.0019</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.2000e-003	0.2720	0.0847	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		101.7447	101.7447	5.9000e-003		101.8921
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4254</b>	<b>0.5217</b>	<b>3.0223</b>	<b>0.0108</b>	<b>1.1657</b>	<b>8.2600e-003</b>	<b>1.1740</b>	<b>0.3097</b>	<b>7.6200e-003</b>	<b>0.3174</b>		<b>1,082.2670</b>	<b>1,082.2670</b>	<b>0.0289</b>		<b>1,082.9903</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.4041</b>	<b>0.4989</b>	<b>2.8211</b>	<b>0.0105</b>	<b>1.1657</b>	<b>8.1600e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5100e-003</b>	<b>0.3173</b>		<b>1,049.6136</b>	<b>1,049.6136</b>	<b>0.0269</b>		<b>1,050.2858</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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.0019</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.4041</b>	<b>0.4989</b>	<b>2.8211</b>	<b>0.0105</b>	<b>1.1657</b>	<b>8.1600e-003</b>	<b>1.1739</b>	<b>0.3097</b>	<b>7.5100e-003</b>	<b>0.3173</b>		<b>1,049.6136</b>	<b>1,049.6136</b>	<b>0.0269</b>		<b>1,050.2858</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564
NaturalGas Unmitigated	0.0397	0.3609	0.3032	2.1700e-003		0.0274	0.0274		0.0274	0.0274		433.0828	433.0828	8.3000e-003	7.9400e-003	435.6564



Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**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					
Industrial Park	2046.77	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04677	0.0221	0.2007	0.1686	1.2000e-003		0.0153	0.0153		0.0153	0.0153		240.7965	240.7965	4.6200e-003	4.4100e-003	242.2275
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3609</b>	<b>0.3032</b>	<b>2.1600e-003</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>		<b>433.0828</b>	<b>433.0828</b>	<b>8.3100e-003</b>	<b>7.9400e-003</b>	<b>435.6564</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

**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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

## Oakmont Mission and Ramona Industrial Park Mitigated - South Coast AQMD Air District, Winter

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

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**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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Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**Oakmont Mission and Ramona Industrial Park LST**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Based on SCE 2019 Sustainability Report.

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA

## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

## Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	16.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	0.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	0.00
tblTripsAndVMT	VendorTripNumber	198.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00



## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	508.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	102.00	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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					
2021	6.5212	74.2014	45.3489	0.0972	18.0663	3.0256	20.1107	9.9307	2.7836	11.8116	0.0000	9,410.394 1	9,410.394 1	3.0435	0.0000	9,486.481 9
2022	5.6777	62.1200	41.6586	0.0973	8.7639	2.5104	11.2743	3.6102	2.3096	5.9198	0.0000	9,422.261 7	9,422.261 7	3.0474	0.0000	9,498.445 5
2023	73.1391	14.3849	16.2440	0.0269	0.0000	0.6997	0.6997	0.0000	0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.7140	0.0000	2,570.406 1
2024	73.1282	1.2188	1.8101	2.9700e- 003	0.0000	0.0609	0.0609	0.0000	0.0609	0.0609	0.0000	281.4481	281.4481	0.0159	0.0000	281.8443
<b>Maximum</b>	<b>73.1391</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0973</b>	<b>18.0663</b>	<b>3.0256</b>	<b>20.1107</b>	<b>9.9307</b>	<b>2.7836</b>	<b>11.8116</b>	<b>0.0000</b>	<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>	<b>0.0000</b>	<b>9,498.445 5</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7384</b>	<b>24.1037</b>	<b>38.8057</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.9772</b>	<b>6,503.9772</b>	<b>1.9722</b>	<b>7.9500e-003</b>	<b>6,555.6507</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7384</b>	<b>24.1037</b>	<b>38.8057</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.9772</b>	<b>6,503.9772</b>	<b>1.9722</b>	<b>7.9500e-003</b>	<b>6,555.6507</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**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

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
Demolition	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.394 1	9,410.394 1	3.0435		9,486.481 9
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.394 1</b>	<b>9,410.394 1</b>	<b>3.0435</b>		<b>9,486.481 9</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836	0.0000	9,410.3940	9,410.3940	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>3.9438</b>	<b>3.0256</b>	<b>6.9694</b>	<b>1.6246</b>	<b>2.7836</b>	<b>4.4082</b>	<b>0.0000</b>	<b>9,410.3940</b>	<b>9,410.3940</b>	<b>3.0435</b>		<b>9,486.4819</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.4 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>3.9438</b>	<b>2.5104</b>	<b>6.4542</b>	<b>1.6246</b>	<b>2.3096</b>	<b>3.9342</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.4 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.5 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.5 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
NaturalGas Unmitigated	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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					
Industrial Park	2049.57	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.1260	241.1260	4.6200e-003	4.4200e-003	242.5589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3612</b>	<b>0.3034</b>	<b>2.1700e-003</b>		<b>0.0275</b>	<b>0.0275</b>		<b>0.0275</b>	<b>0.0275</b>		<b>433.4122</b>	<b>433.4122</b>	<b>8.3100e-003</b>	<b>7.9500e-003</b>	<b>435.9878</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04957	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.1260	241.1260	4.6200e-003	4.4200e-003	242.5589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3612</b>	<b>0.3034</b>	<b>2.1700e-003</b>		<b>0.0275</b>	<b>0.0275</b>		<b>0.0275</b>	<b>0.0275</b>		<b>433.4122</b>	<b>433.4122</b>	<b>8.3100e-003</b>	<b>7.9500e-003</b>	<b>435.9878</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**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
Off-Highway Tractors	2	4.00	365	200	0.44	Diesel
Rough Terrain Forklifts	16	8.00	365	100	0.40	Diesel



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Summer

**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					
Off-Highway Tractors	0.2621	2.1377	1.7610	7.5500e-003		0.0763	0.0763		0.0702	0.0702		730.5355	730.5355	0.2363		736.4423
Rough Terrain Forklifts	1.6383	21.6037	36.6248	0.0552		0.6580	0.6580		0.6053	0.6053		5,339.7794	5,339.7794	1.7270		5,382.9542
<b>Total</b>	<b>1.9003</b>	<b>23.7414</b>	<b>38.3858</b>	<b>0.0627</b>		<b>0.7342</b>	<b>0.7342</b>		<b>0.6755</b>	<b>0.6755</b>		<b>6,070.3149</b>	<b>6,070.3149</b>	<b>1.9633</b>		<b>6,119.3965</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**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**Oakmont Mission and Ramona Industrial Park LST**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	217.47	1000sqft	4.99	217,469.00	0
Unrefrigerated Warehouse-No Rail	296.80	1000sqft	6.81	296,800.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	534	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Based on SCE 2019 Sustainability Report.

Land Use - Based on site plan for the project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on offroad equipment for warehouse projects.

Stationary Sources - Emergency Generators and Fire Pumps - NA

## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

## Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	68.00
tblEnergyUse	T24E	3.07	2.74
tblEnergyUse	T24E	0.37	0.33
tblEnergyUse	T24NG	3.47	3.44
tblEnergyUse	T24NG	2.00	1.98
tblGrading	AcresOfGrading	247.50	112.50
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	217,470.00	217,469.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	16.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	0.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	0.00
tblTripsAndVMT	VendorTripNumber	198.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	508.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	102.00	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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					
2021	6.5212	74.2014	45.3489	0.0972	18.0663	3.0256	20.1107	9.9307	2.7836	11.8116	0.0000	9,410.394 1	9,410.394 1	3.0435	0.0000	9,486.481 9
2022	5.6777	62.1200	41.6586	0.0973	8.7639	2.5104	11.2743	3.6102	2.3096	5.9198	0.0000	9,422.261 7	9,422.261 7	3.0474	0.0000	9,498.445 5
2023	73.1391	14.3849	16.2440	0.0269	0.0000	0.6997	0.6997	0.0000	0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.7140	0.0000	2,570.406 1
2024	73.1282	1.2188	1.8101	2.9700e- 003	0.0000	0.0609	0.0609	0.0000	0.0609	0.0609	0.0000	281.4481	281.4481	0.0159	0.0000	281.8443
<b>Maximum</b>	<b>73.1391</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0973</b>	<b>18.0663</b>	<b>3.0256</b>	<b>20.1107</b>	<b>9.9307</b>	<b>2.7836</b>	<b>11.8116</b>	<b>0.0000</b>	<b>9,422.261 7</b>	<b>9,422.261 7</b>	<b>3.0474</b>	<b>0.0000</b>	<b>9,498.445 5</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7384</b>	<b>24.1037</b>	<b>38.8057</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.9772</b>	<b>6,503.9772</b>	<b>1.9722</b>	<b>7.9500e-003</b>	<b>6,555.6507</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Energy	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	1.9003	23.7414	38.3858	0.0627		0.7342	0.7342		0.6755	0.6755		6,070.3149	6,070.3149	1.9633		6,119.3965
<b>Total</b>	<b>13.7384</b>	<b>24.1037</b>	<b>38.8057</b>	<b>0.0649</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>0.0000</b>	<b>0.7033</b>	<b>0.7033</b>		<b>6,503.9772</b>	<b>6,503.9772</b>	<b>1.9722</b>	<b>7.9500e-003</b>	<b>6,555.6507</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**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	3/13/2024	5	68	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 771,404; Non-Residential Outdoor: 257,135; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	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	5	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

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
Demolition	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836		9,410.394 1	9,410.394 1	3.0435		9,486.481 9
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>8.7639</b>	<b>3.0256</b>	<b>11.7895</b>	<b>3.6102</b>	<b>2.7836</b>	<b>6.3938</b>		<b>9,410.394 1</b>	<b>9,410.394 1</b>	<b>3.0435</b>		<b>9,486.481 9</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	6.5212	74.2014	45.3489	0.0972		3.0256	3.0256		2.7836	2.7836	0.0000	9,410.3940	9,410.3940	3.0435		9,486.4819
<b>Total</b>	<b>6.5212</b>	<b>74.2014</b>	<b>45.3489</b>	<b>0.0972</b>	<b>3.9438</b>	<b>3.0256</b>	<b>6.9694</b>	<b>1.6246</b>	<b>2.7836</b>	<b>4.4082</b>	<b>0.0000</b>	<b>9,410.3940</b>	<b>9,410.3940</b>	<b>3.0435</b>		<b>9,486.4819</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.4 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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096		9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>8.7639</b>	<b>2.5104</b>	<b>11.2743</b>	<b>3.6102</b>	<b>2.3096</b>	<b>5.9198</b>		<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.4 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	5.6777	62.1200	41.6586	0.0973		2.5104	2.5104		2.3096	2.3096	0.0000	9,422.2617	9,422.2617	3.0474		9,498.4455
<b>Total</b>	<b>5.6777</b>	<b>62.1200</b>	<b>41.6586</b>	<b>0.0973</b>	<b>3.9438</b>	<b>2.5104</b>	<b>6.4542</b>	<b>1.6246</b>	<b>2.3096</b>	<b>3.9342</b>	<b>0.0000</b>	<b>9,422.2617</b>	<b>9,422.2617</b>	<b>3.0474</b>		<b>9,498.4455</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.4 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.5 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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.5 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.5 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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>73.1391</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**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	72.9474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>73.1282</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0000	0.0000	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>0.0000</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>0.0000</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>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878
NaturalGas Unmitigated	0.0397	0.3612	0.3034	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4122	433.4122	8.3100e-003	7.9500e-003	435.9878



Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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					
Industrial Park	2049.57	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.1260	241.1260	4.6200e-003	4.4200e-003	242.5589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1634.43	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3612</b>	<b>0.3034</b>	<b>2.1700e-003</b>		<b>0.0275</b>	<b>0.0275</b>		<b>0.0275</b>	<b>0.0275</b>		<b>433.4122</b>	<b>433.4122</b>	<b>8.3100e-003</b>	<b>7.9500e-003</b>	<b>435.9878</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	2.04957	0.0221	0.2009	0.1688	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.1260	241.1260	4.6200e-003	4.4200e-003	242.5589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.63443	0.0176	0.1602	0.1346	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.2862	192.2862	3.6900e-003	3.5300e-003	193.4289
<b>Total</b>		<b>0.0397</b>	<b>0.3612</b>	<b>0.3034</b>	<b>2.1700e-003</b>		<b>0.0275</b>	<b>0.0275</b>		<b>0.0275</b>	<b>0.0275</b>		<b>433.4122</b>	<b>433.4122</b>	<b>8.3100e-003</b>	<b>7.9500e-003</b>	<b>435.9878</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
Unmitigated	11.7983	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664

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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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	1.3590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1165	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2501	0.2501	6.5000e-004		0.2664
<b>Total</b>	<b>11.7983</b>	<b>1.0600e-003</b>	<b>0.1165</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>0.2501</b>	<b>0.2501</b>	<b>6.5000e-004</b>		<b>0.2664</b>

**7.0 Water Detail**

**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
Off-Highway Tractors	2	4.00	365	200	0.44	Diesel
Rough Terrain Forklifts	16	8.00	365	100	0.40	Diesel

Oakmont Mission and Ramona Industrial Park LST - South Coast AQMD Air District, Winter

**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					
Off-Highway Tractors	0.2621	2.1377	1.7610	7.5500e-003		0.0763	0.0763		0.0702	0.0702		730.5355	730.5355	0.2363		736.4423
Rough Terrain Forklifts	1.6383	21.6037	36.6248	0.0552		0.6580	0.6580		0.6053	0.6053		5,339.7794	5,339.7794	1.7270		5,382.9542
<b>Total</b>	<b>1.9003</b>	<b>23.7414</b>	<b>38.3858</b>	<b>0.0627</b>		<b>0.7342</b>	<b>0.7342</b>		<b>0.6755</b>	<b>0.6755</b>		<b>6,070.3149</b>	<b>6,070.3149</b>	<b>1.9633</b>		<b>6,119.3965</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**

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325

2024 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual										
(Tons/Year)						(Metric Tons/Year)				
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e	
<b>Running Exhaust, Tire Wear, and Break Wear</b>										
0.10	11.45	0.34	0.11	0.26	0.25	10,709.41	0.00	1.69	11,212.33	
0.09	0.32	4.55	0.01	0.01	0.01	1,367.03	0.02	0.03	1,375.51	
0.19	11.77	4.90	0.13	0.27	0.26	12,076.44	0.02	1.71	12,587.84	
<b>Paved Road - PM only</b>										
				13.17	3.23					
				1.53	0.37					
Subtotal				14.69	3.61					
<b>Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap</b>										
0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.12	0.09	1.11	0.00	0.00	0.00	20.69	0.02	0.01	24.12	
Subtotal	0.12	0.55	1.11	0.00	0.00	20.69	0.02	0.01	24.12	
<b>Idling</b>										
0.38	9.24	7.32	0.02	0.01	0.01	1,480.66	0.02	0.23	1,550.58	
Subtotal	0.38	9.24	7.32	0.02	0.01	1,480.66	0.02	0.23	1,550.58	
<b>TOTAL</b>	<b>0.68</b>	<b>21.56</b>	<b>13.34</b>	<b>0.14</b>	<b>14.98</b>	<b>3.88</b>	<b>13,577.80</b>	<b>0.06</b>	<b>1.96</b>	<b>14,162.54</b>





Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.012718185	9.999862938	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.014451182	0.218998763	0	0	0	0	0	0	0	0	
				<b>HHDT and MHDT Composite</b>				<b>0.0128</b>	<b>9.4477</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolinr	Aggregate	309548.7892	12857053.58	1432614.993	0.009378579	0	0.328743438	0.094614793	0.246465254	0	1.656795168	0	0	0	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03023386	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001149263	0	0.772975029	0.035027972	0.032177804	0	0.520202951	0	0	0	
San Bernardino (MD)	2024	LDT1	Gasolinr	Aggregate	31233.77168	1048128.245	133722.8767	0.042058143	0	0.752878879	0.248756787	0.755029734	0	4.398263116	0	0	0	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.311387166	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001037479	0	0.772975029	0.020378855	0.017882206	0	0.309733857	0	0	0	
San Bernardino (MD)	2024	LDT2	Gasolinr	Aggregate	137725.5016	5643211.721	641066.7964	0.012516666	0	0.407096244	0.092161256	0.257976	0	1.72541309	0	0	0	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.011726532	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0	0	0	0	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001083481	0	0.772975029	0.02174854	0.02003343	0	0.344353976	0	0	0	
San Bernardino (MD)	2024	MCY	Gasolinr	Aggregate	18161.87327	104842.2951	36323.74653	1.294993905	0	1.536663257	3.552423265	3.896159522	0	5.332071847	0	0	0	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0179</b>	<b>0.0000</b>	<b>0.3753</b>	<b>0.1143</b>	<b>0.2798</b>	<b>0.0000</b>	<b>1.7461</b>	<b>0.417736</b>	<b>0.417736</b>	<b>1.6048</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014478685	11.38408275	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.016451571	0.249313421	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0146</b>	<b>10.7555</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309548.7892	12857053.58	1432614.993	0.0136852	0	0.359932685	0.094614793	0.246465254	0	1.656795168	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03441924	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001677002	0	0.846310361	0.035027972	0.032177804	0	0.520202951	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31233.77168	1048128.245	133722.8767	0.061360451	0	0.824306307	0.248756787	0.755029734	0	4.398263116	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.354493586	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001513886	0	0.846310361	0.020378855	0.017882206	0	0.309733857	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137725.5016	5643211.721	641066.7964	0.018263587	0	0.445719058	0.092161256	0.257976	0	1.72541309	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.013349877	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001581013	0	0.846310361	0.02174854	0.02003343	0	0.344353976	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18161.87327	104842.2951	36323.74653	1.543852712	0	1.670313312	3.552423265	3.896159522	0	5.332071847	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0243</b>	<b>0.0000</b>	<b>0.4108</b>	<b>0.1143</b>	<b>0.2798</b>	<b>0.0000</b>	<b>1.7461</b>	<b>0.417736</b>	<b>0.417736</b>	<b>1.6404</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Annual NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1.497832353	118.6337761	2.42738497
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.834068277	12.06381464	1.385943889
							<b>HHDT and MHDT Composite</b>	<b>1.4604</b>	<b>112.6174</b>	<b>2.3686</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.044938857	0	0.258778922
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.262180236	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.002872238	0	0.459964186
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.205972512	0	0.503097358
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	1.743559976	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.002592866	0	0.459964186
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.080283242	0	0.358107648
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.054173713	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.002707836	0	0.459964186
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.68082966	0	0.166495293
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0637</b>	<b>0.0000</b>	<b>0.2933</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.04341779	147.3548375	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.052439828	6.709844054	0
							<b>HHDT and MHDT Composite</b>	<b>0.0439</b>	<b>139.4148</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.750870898	0	3.216643612
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.35681795	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.203933365	0	5.540815825
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	1.973331127	0	7.246326803
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	2.024169148	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.184097525	0	5.540815825
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.886181117	0	3.856882719
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.113374439	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.192260568	0	5.540815825
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	17.60673315	0	8.07994133
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.8950</b>	<b>0.0000</b>	<b>3.6294</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014502414	0.217729684	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.010258958	0.019152418	0
						<b>HHDT and MHDT Composite</b>		<b>0.0143</b>	<b>0.2065</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.002854415	0	0.000698954
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.002332183	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001264642	0	0.000728572
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.003426135	0	0.000914127
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.004101035	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001141635	0	0.000784291
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003520355	0	0.00088027
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.003050931	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001192256	0	0.000848565
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001947241	0	0.000548543
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0029</b>	<b>0.0000</b>	<b>0.0007</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.0344964	0.044691664	0	0.035930262	0.070364256	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.012533257	0.026412666	0	0.012000003	0.041711441	
							<b>HHDT and MHDT Composite</b>	<b>0.0333</b>	<b>0.0437</b>	<b>0.0000</b>	<b>0.0346</b>	<b>0.0687</b>	<b>0.136582</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001261576	0	0.002108692	0.008000002	0.005480212	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.020323255	0	0	0.008000002	0.005582816	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.008000002	0.004367245	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000636178	0	0.002176869	0.008000002	0.003517448	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.00225597	0	0.003742015	0.008000002	0.006739005	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.256798693	0	0	0.008000002	0.007623684	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.008000002	0.004374654	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000389778	0	0.001488873	0.008000002	0.003590741	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001298034	0	0.002148377	0.008000002	0.006401396	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005336553	0	0	0.008000002	0.006269843	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.008000002	0.004358152	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000483571	0	0.00176484	0.008000002	0.003559892	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001925633	0	0.00334752	0.004000001	0.012000003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0013</b>	<b>0.0000</b>	<b>0.0022</b>	<b>0.0080</b>	<b>0.0057</b>	<b>0.015032</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.033004101	0.042758322	0	0.008982565	0.02462749	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.011991074	0.025270065	0	0.003000001	0.014599004	
				<b>HHDT and MHDT Composite</b>				<b>0.0318</b>	<b>0.0418</b>	<b>0.0000</b>	<b>0.0086</b>	<b>0.0241</b>	<b>0.064524</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001159973	0	0.001938864	0.002000001	0.001918074	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.01944408	0	0	0.002000001	0.001953986	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.002000001	0.001528536	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000584942	0	0.002001551	0.002000001	0.001231107	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.002074351	0	0.003440799	0.002000001	0.002358652	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.245689696	0	0	0.002000001	0.002668289	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.002000001	0.001531129	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000358387	0	0.001368963	0.002000001	0.001256759	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001193498	0	0.001975362	0.002000001	0.002240489	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005105696	0	0	0.002000001	0.002194445	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.002000001	0.001525353	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000444625	0	0.001622705	0.002000001	0.001245962	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001803546	0	0.003151773	0.001	0.004200001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0012</b>	<b>0.0000</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.005208</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1531.502577	22992.97079	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	1083.379706	2022.558377	0
<b>HHDT and MHDT Composite</b>								<b>1506.2041</b>	<b>21809.1001</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	288.7325492	0	70.70131446
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	246.1275281	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	127.9222728	0	73.6972417
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	346.5637266	0	92.46660789
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	432.8036569	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	115.4797491	0	79.33336362
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	356.0943379	0	89.04191841
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	321.9807126	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	120.6002203	0	85.83489472
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	196.9692366	0	55.48672846
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>296.0893</b>	<b>0.0000</b>	<b>74.3864</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day



**Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Annual N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.241288855	3.622551912	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.170686914	0.318654896	0
<b>HHDT and MHDT Composite</b>								<b>0.2373</b>	<b>3.4360</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.004920735	0	0.033665448
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.038777492	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000355456	0	0.05685141
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.013726634	0	0.044011897
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.068188392	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000318183	0	0.056435686
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.006584085	0	0.038564081
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.050728192	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000332711	0	0.056501081
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.044589769	0	0.009676292
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0058</b>	<b>0.0000</b>	<b>0.0345</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.000590727	0.464467734	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.00067122	0.010171925	0
								<b>0.0006</b>	<b>0.4388</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.002466404	0	0.072838536
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.001404305	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000296607	0	0.155186112
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.009284027	0	0.139473547
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.014463339	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.00026671	0	0.154660036
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003155005	0	0.087224234
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.000544675	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.0002787	0	0.154743235
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.192039062	0	0.204543422
								<b>0.0038</b>	<b>0.0000</b>	<b>0.0817</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT
San Bernar	2023	HHDT	Aggregate	Aggregate	Gasoline	3.706021	198.5498	198.5498
San Bernar	2023	HHDT	Aggregate	Aggregate	Diesel	12541.22	2609489	2609489
San Bernar	2023	HHDT	Aggregate	Aggregate	Electricity	11.53584	1130.876	0
San Bernar	2023	HHDT	Aggregate	Aggregate	Natural Ga:	33.1908	2419.664	2419.664
San Bernar	2023	LDA	Aggregate	Aggregate	Gasoline	312180.3	12850026	12850026
San Bernar	2023	LDA	Aggregate	Aggregate	Diesel	1111.78	36864.07	36864.07
San Bernar	2023	LDA	Aggregate	Aggregate	Electricity	11324.99	536054.6	0
San Bernar	2023	LDA	Aggregate	Aggregate	Plug-in Hyb	7422.455	367736.6	186538.3
San Bernar	2023	LDT1	Aggregate	Aggregate	Gasoline	32278.55	1068871	1068871
San Bernar	2023	LDT1	Aggregate	Aggregate	Diesel	17.77199	243.407	243.407
San Bernar	2023	LDT1	Aggregate	Aggregate	Electricity	37.46099	1553.819	0
San Bernar	2023	LDT1	Aggregate	Aggregate	Plug-in Hyb	21.98848	1174.83	541.535
San Bernar	2023	LDT2	Aggregate	Aggregate	Gasoline	135449.8	5476171	5476171
San Bernar	2023	LDT2	Aggregate	Aggregate	Diesel	415.1711	18119.07	18119.07
San Bernar	2023	LDT2	Aggregate	Aggregate	Electricity	534.2571	20036.79	0
San Bernar	2023	LDT2	Aggregate	Aggregate	Plug-in Hyb	841.1396	43428.44	20816.2
San Bernar	2023	LHDT1	Aggregate	Aggregate	Gasoline	13373.18	482494.3	482494.3
San Bernar	2023	LHDT1	Aggregate	Aggregate	Diesel	11266.77	414957.4	414957.4
San Bernar	2023	LHDT2	Aggregate	Aggregate	Gasoline	1757.472	63304.9	63304.9
San Bernar	2023	LHDT2	Aggregate	Aggregate	Diesel	4751.018	181922.2	181922.2
San Bernar	2023	MCY	Aggregate	Aggregate	Gasoline	18296.67	105592.6	105592.6
San Bernar	2023	MDV	Aggregate	Aggregate	Gasoline	106014.1	4096216	4096216
San Bernar	2023	MDV	Aggregate	Aggregate	Diesel	1733.718	70442.83	70442.83
San Bernar	2023	MDV	Aggregate	Aggregate	Electricity	582.2451	21819.89	0
San Bernar	2023	MDV	Aggregate	Aggregate	Plug-in Hyb	554.3277	26581.08	13284.45
San Bernar	2023	MH	Aggregate	Aggregate	Gasoline	3314.159	28525.3	28525.3
San Bernar	2023	MH	Aggregate	Aggregate	Diesel	1297.879	11212.43	11212.43
San Bernar	2023	MHDT	Aggregate	Aggregate	Gasoline	920.2847	63606.39	63606.39
San Bernar	2023	MHDT	Aggregate	Aggregate	Diesel	2658.088	156869.9	156869.9
San Bernar	2023	MHDT	Aggregate	Aggregate	Electricity	1.582674	49.98045	0
San Bernar	2023	MHDT	Aggregate	Aggregate	Natural Ga:	7.663496	360.2936	360.2936
San Bernar	2023	OBUS	Aggregate	Aggregate	Gasoline	281.3228	17086.93	17086.93
San Bernar	2023	OBUS	Aggregate	Aggregate	Diesel	71.62191	4963.503	4963.503
San Bernar	2023	SBUS	Aggregate	Aggregate	Gasoline	93.76778	5830.784	5830.784
San Bernar	2023	SBUS	Aggregate	Aggregate	Diesel	620.8981	14679.02	14679.02
San Bernar	2023	SBUS	Aggregate	Aggregate	Electricity	0.270902	3.144981	0
San Bernar	2023	UBUS	Aggregate	Aggregate	Gasoline	55.06245	5254.365	5254.365
San Bernar	2023	UBUS	Aggregate	Aggregate	Diesel	2.558566	252.3864	252.3864

San Bernar	2023 UBUS	Aggregate	Aggregate	Electricity	0.196662	20.74125	0
San Bernar	2023 UBUS	Aggregate	Aggregate	Natural Ga:	103.6568	13693.46	13693.46

RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIUR

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR
0	74.15006	0	8.645329	0	0.537016	0.004554	0	0.002181
0	263316.6	0	1.555702	119.1353	2.39996	0.033374	0.043263	0
1130.876	250.0654	2035.71	0	0	0	0	0	0
0	378.5864	0	0.3738	17.57389	0	0.0011	0.03907	0
0	1446038	0	0.050055	0	0.271433	0.001204	0	0.002007
0	4735.609	0	0.290831	0	0	0.021968	0	0
536054.6	56930.3	206961.3	0	0	0	0	0	0
181198.3	36481.37	54727.3	0.002945	0	0.459964	0.000632	0	0.002102
0	138205.7	0	0.228658	0	0.532202	0.002233	0	0.003673
0	51.45742	0	1.750715	0	0	0.246881	0	0
1553.819	179.6315	599.9023	0	0	0	0	0	0
633.2954	108.0734	191.2741	0.002676	0	0.459964	0.000378	0	0.001396
0	630136.9	0	0.091092	0	0.387082	0.00124	0	0.002036
0	1989.385	0	0.06555	0	0	0.006593	0	0
20036.79	2743.818	7735.856	0	0	0	0	0	0
22612.24	4134.201	6829.569	0.002783	0	0.459964	0.00048	0	0.001705
0	199240.5	0	0.267297	0.038429	0.672719	0.001298	0	0.000416
0	141721.8	0	2.546426	2.250165	0	0.031632	0.026736	0
0	26183.72	0	0.203286	0.038802	0.692794	0.001056	0	0.000287
0	59761.83	0	1.781035	2.189513	0	0.026544	0.026243	0
0	36593.33	0	0.696614	0	0.171717	0.001804	0	0.003275
0	481739.6	0	0.1652	0	0.545915	0.001342	0	0.002262
0	8068.769	0	0.178242	0	0	0.009663	0	0
21819.89	2989.453	8424.279	0	0	0	0	0	0
13296.63	2724.521	4015.978	0.002902	0	0.459964	0.000651	0	0.002208
0	331.5485	0	0.519323	0	0.41148	0.001295	0	0.000404
0	129.7879	0	4.947131	0	0	0.183217	0	0
0	18413.06	0	0.533504	0.088944	0.451154	0.00094	0	0.000529
0	35240.85	0	0.911287	12.51237	1.374455	0.013003	0.030522	0
49.98045	22.90489	62.74788	0	0	0	0	0	0
0	39.31373	0	0.050301	7.75101	0	0.000799	0.02704	0
0	5628.707	0	0.710193	0.064695	0.412667	0.000776	0	0.000318
0	846.0137	0	2.364885	13.29682	1.580847	0.064464	0.034819	0
0	375.0711	0	0.667091	0.92344	0.701763	0.001298	0	0.000573
0	8990.604	0	3.537766	21.09601	0.551372	0.020708	0.018481	0
3.144981	3.922662	4.27829	0	0	0	0	0	0
0	220.2498	0	0.257931	0	0.965342	0.001936	0	0.000954
0	10.23427	0	0.456415	0	0	0.004387	0	0

20.74125	0.786648	43.95159	0	0	0	0	0	0
0	414.6271	0	0.400555	0	0	0.000286	0	0

IN

PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM1	PM10_PMI	CO2_RUNE	CO2_IDLEX
0.005	0.028905	0.004953	0	0.002372	0.02	0.082585	2398.468	0
0.008982	0.024623	0.034883	0.045219	0	0.03593	0.070351	1555.064	23525.24
0.008992	0.012302	0	0	0	0.035968	0.035148	0	0
0.009	0.026798	0.001196	0.042492	0	0.036	0.076567	1141.054	13210.57
0.002	0.001923	0.001309	0	0.002183	0.008	0.005494	293.3964	0
0.002	0.001953	0.022961	0	0	0.008	0.005581	248.1214	0
0.002	0.001528	0	0	0	0.008	0.004365	0	0
0.002	0.001224	0.000687	0	0.002287	0.008	0.003496	131.1546	0
0.002	0.002369	0.002428	0	0.003994	0.008	0.006768	351.7762	0
0.002	0.002678	0.258044	0	0	0.008	0.007651	433.241	0
0.002	0.001533	0	0	0	0.008	0.004381	0	0
0.002	0.001248	0.000411	0	0.001519	0.008	0.003565	119.1801	0
0.002	0.002248	0.001348	0	0.002214	0.008	0.006424	363.5764	0
0.002	0.002192	0.006891	0	0	0.008	0.006264	327.2396	0
0.002	0.001524	0	0	0	0.008	0.004355	0	0
0.002	0.001238	0.000522	0	0.001855	0.008	0.003537	123.9309	0
0.002	0.0273	0.001411	0	0.000453	0.008	0.078	664.134	121.4211
0.003	0.0273	0.033063	0.027945	0	0.012	0.078	495.8677	136.1875
0.002	0.03185	0.001149	0	0.000312	0.008	0.091	738.53	140.1927
0.003	0.03185	0.027745	0.02743	0	0.012	0.091	596.2183	216.9759
0.001	0.0042	0.001925	0	0.003474	0.004	0.012	197.6681	0
0.002	0.002345	0.001459	0	0.00246	0.008	0.006699	449.6261	0
0.002	0.002324	0.010099	0	0	0.008	0.006641	445.782	0
0.002	0.001524	0	0	0	0.008	0.004354	0	0
0.002	0.001228	0.000708	0	0.002402	0.008	0.003508	129.2181	0
0.003	0.014602	0.001408	0	0.000439	0.012	0.041719	1805.2	0
0.004	0.014597	0.191501	0	0	0.016	0.041706	969.9511	0
0.003	0.014602	0.001023	0	0.000575	0.012	0.041719	1678.219	546.6277
0.003	0.014599	0.013591	0.031902	0	0.012	0.041711	1089.472	2041.202
0.003	0.007299	0	0	0	0.012	0.020854	0	0
0.003	0.014597	0.000869	0.029408	0	0.012	0.041706	733.8838	6935.425
0.003	0.014594	0.000844	0	0.000346	0.012	0.041696	1716.668	383.2442
0.003	0.019042	0.067379	0.036394	0	0.012	0.054404	1350.621	2681.354
0.002	0.016396	0.001411	0	0.000623	0.008	0.046845	894.8259	2604.874
0.003	0.016396	0.021645	0.019317	0	0.012	0.046845	1250.107	2207.658
0.003	0.008198	0	0	0	0.012	0.023423	0	0
0.002969	0.038292	0.002105	0	0.001038	0.011875	0.109404	2268.23	0
0.005633	0.0385	0.004586	0	0	0.022532	0.11	1279.376	0



0.00616	0.01925	0	0	0	0.02464	0.055	0	0
0.006395	0.038459	0.000299	0	0	0.025578	0.109884	1982.103	0

CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX
52.6825	0.377608	0	8.81E-05	0.22235	0	0.012019	2.421332	0
0	0.000611	0.46609	0	0.245001	3.706411	0	0.013163	10.0348
0	0	0	0	0	0	0	0	0
0	0.848956	50.04434	0	0.232611	2.693061	0	0.01213	0.715035
72.0594	0.002735	0	0.076921	0.005235	0	0.034445	0.010625	0
0	0.001578	0	0	0.039092	0	0	0.033967	0
0	0	0	0	0	0	0	0	0
74.44616	0.000305	0	0.155669	0.000367	0	0.057231	0.001179	0
94.49165	0.010318	0	0.14833	0.014963	0	0.04532	0.04704	0
0	0.014525	0	0	0.068257	0	0	0.312705	0
0	0	0	0	0	0	0	0	0
80.3541	0.000277	0	0.155289	0.000331	0	0.056929	0.001072	0
91.20522	0.003486	0	0.092795	0.00716	0	0.040147	0.014043	0
0	0.000644	0	0	0.051557	0	0	0.01386	0
0	0	0	0	0	0	0	0	0
86.71514	0.000288	0	0.155387	0.000345	0	0.057006	0.001114	0
25.55127	0.00831	0.118425	0.037698	0.014336	0.002989	0.051554	0.04199	0.439785
0	0.00575	0.005098	0	0.078124	0.021456	0	0.123793	0.10976
25.80582	0.004704	0.121456	0.036459	0.012044	0.003062	0.053216	0.022068	0.444774
0	0.004575	0.005098	0	0.093934	0.034185	0	0.09849	0.10976
56.37946	0.197051	0	0.208703	0.045256	0	0.009942	1.338977	0
113.1477	0.005909	0	0.126204	0.011184	0	0.047113	0.025668	0
0	0.000802	0	0	0.070233	0	0	0.017266	0
0	0	0	0	0	0	0	0	0
106.4176	0.000299	0	0.154723	0.000356	0	0.056485	0.001162	0
31.88651	0.01536	0	0.039585	0.029731	0	0.042609	0.06835	0
0	0.004279	0	0	0.152816	0	0	0.09212	0
46.99484	0.014196	0.263884	0.050478	0.026069	0.007518	0.034478	0.069645	0.998147
0	0.000742	0.01083	0	0.171647	0.321592	0	0.015985	0.233174
0	0	0	0	0	0	0	0	0
0	0.43215	18.67798	0	0.149607	1.413832	0	0.006175	0.266871
32.4725	0.016699	0.198996	0.03928	0.032006	0.005296	0.031748	0.081975	0.740801
0	0.003918	0.044368	0	0.212791	0.422448	0	0.084355	0.955226
59.66657	0.019045	2.499583	0.077429	0.033476	0.085415	0.063792	0.094119	10.59636
0	0.003205	0.007844	0	0.196955	0.347817	0	0.068997	0.168883
0	0	0	0	0	0	0	0	0
120.2614	0.006335	0	0.134493	0.022559	0	0.085602	0.021065	0
0	0.003084	0	0	0.201566	0	0	0.066398	0

0	0	0	0	0	0	0	0	
0	2.249252	0	0	0.404065	0	0	0.032306	0

ROG_STRE)	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_HOTS	TOG_RUNL
0.000455	0.137903	1.246683	11.12764	3.533202	0	0.000499	0.137903	1.246683
0	0	0	0	0.014985	11.42385	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.866422	51.07392	0	0	0
0.351976	0.098184	0.254072	1.708589	0.015498	0	0.385369	0.098184	0.254072
0	0	0	0	0.038669	0	0	0	0
0	0	0	0	0	0	0	0	0
0.772975	0.034838	0.031184	0.523912	0.001721	0	0.84631	0.034838	0.031184
0.808091	0.26144	0.802253	4.610999	0.068616	0	0.884755	0.26144	0.802253
0	0	0	0	0.355994	0	0	0	0
0	0	0	0	0	0	0	0	0
0.772975	0.020741	0.018592	0.317443	0.001564	0	0.84631	0.020741	0.018592
0.43867	0.096689	0.267377	1.783408	0.02049	0	0.480289	0.096689	0.267377
0	0	0	0	0.015779	0	0	0	0
0	0	0	0	0	0	0	0	0
0.772975	0.02206	0.020721	0.355193	0.001626	0	0.84631	0.02206	0.020721
0.189139	0.063108	0.359407	4.003857	0.061272	0.641733	0.207084	0.063108	0.359407
0	0	0	0	0.140931	0.124954	0	0	0
0.17913	0.052417	0.285088	3.300962	0.032202	0.649013	0.196125	0.052417	0.285088
0	0	0	0	0.112125	0.124954	0	0	0
1.572414	3.551671	3.878177	5.326573	1.591144	0	1.709032	3.551671	3.878177
0.646021	0.125057	0.367586	2.329278	0.037386	0	0.707306	0.125057	0.367586
0	0	0	0	0.019656	0	0	0	0
0	0	0	0	0	0	0	0	0
0.772975	0.02581	0.024666	0.422792	0.001695	0	0.84631	0.02581	0.024666
0.16459	13.86551	0.323407	5.649278	0.099736	0	0.180206	13.86551	0.323407
0	0	0	0	0.104872	0	0	0	0
0.270337	0.039733	0.322912	3.563182	0.101626	1.456493	0.295985	0.039733	0.322912
0	0	0	0	0.018198	0.265451	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.441041	19.06225	0	0	0
0.204806	0.041667	0.195042	3.753691	0.119618	1.080976	0.224237	0.041667	0.195042
0	0	0	0	0.096032	1.087452	0	0	0
0.438982	0.130582	0.330296	2.178446	0.137338	15.46218	0.48063	0.130582	0.330296
0	0	0	0	0.078548	0.19226	0	0	0
0	0	0	0	0	0	0	0	0
0.576613	0.038043	0.095198	0.553896	0.030738	0	0.631319	0.038043	0.095198
0	0	0	0	0.075589	0	0	0	0

0	0	0	0	0	0	0	0	0
0	0	0	0	2.295711	0	0	0	0

TOG_DIURINH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
11.12764	0.039142	164.5329	0	2.70567	0.023711	0 0.000521
0	0.219685	0.04772	147.7701	0	0.014726	0.22277 0
0	0	0	0	0	0	0 0
0	1.040621	6.958745	74.70438	0	0	0 0
1.708589	0.033713	0.801623	0	3.409422	0.002901	0 0.000712
0	0.0031	0.375224	0	0	0.002351	0 0
0	0	0	0	0	0	0 0
0.523912	0.019522	0.209125	0	5.540816	0.001297	0 0.000736
4.610999	0.038068	2.159673	0	7.776274	0.003478	0 0.000934
0	0.0031	2.031822	0	0	0.004105	0 0
0	0	0	0	0	0	0 0
0.317443	0.01936	0.190032	0	5.540816	0.001178	0 0.000794
1.783408	0.035691	0.956064	0	4.115501	0.003594	0 0.000902
0	0.0031	0.122176	0	0	0.003101	0 0
0	0	0	0	0	0	0 0
0.355193	0.020094	0.197607	0	5.540816	0.001225	0 0.000857
4.003857	0.044822	1.628231	3.740503	3.027224	0.006566	0.0012 0.000253
0	0.144089	0.478756	0.909745	0	0.004699	0.00129 0
3.300962	0.044958	1.042407	3.757979	2.938268	0.007301	0.001386 0.000255
0	0.163343	0.321356	0.909745	0	0.005649	0.002056 0
5.326573	0.008618	18.09938	0	8.128271	0.001954	0 0.000557
2.329278	0.034633	1.330319	0	4.803534	0.004445	0 0.001119
0	0.0031	0.260294	0	0	0.004224	0 0
0	0	0	0	0	0	0 0
0.422792	0.02099	0.206037	0	5.540816	0.001277	0 0.001052
5.649278	0.04477	2.185179	0	3.634377	0.017846	0 0.000315
0	0.1078	0.387847	0	0	0.009191	0 0
3.563182	0.044925	1.690851	14.30596	5.81976	0.016591	0.005404 0.000465
0	0.212458	0.056358	6.735562	0	0.010317	0.019329 0
0	0	0	0	0	0	0 0
0	1.06	1.092415	53.45212	0	0	0 0
3.753691	0.044876	2.050289	5.741688	4.347831	0.016971	0.003789 0.000321
0	0.204757	0.245559	14.08298	0	0.01279	0.025391 0
2.178446	0.045	1.886727	81.96665	11.1328	0.008846	0.025752 0.00059
0	0.15842	0.191822	4.983707	0	0.011838	0.020905 0
0	0	0	0	0	0	0 0
0.553896	0.045	0.345597	0	10.22898	0.022424	0 0.001189
0	0.22	0.075658	0	0	0.012123	0 0

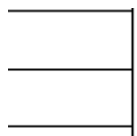
0	0	0	0	0	0	0	0	0
0	0.97	28.97929	0	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip





2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	487	177,755
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325

2024 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.55	58.95	1.89	0.61	1.43	1.37	64,685.57	0.03	10.19	67,723.19
0.51	1.50	35.06	0.09	0.04	0.03	9,098.55	0.11	0.14	9,144.17

Subtotal 1.07 60.45 36.94 0.70 1.46 1.40 73,784.12 0.14 10.33 76,867.37

PM10	PM2.5
Paved Road - PM only	
72.15	17.71
8.36	2.05
Subtotal	80.51 19.76

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.51	0.46	4.93	0.00	0.00	0.00	122.70	0.11	0.06	142.20
Subtotal	0.51	3.00	4.93	0.00	0.00	122.70	0.11	0.06	142.20

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
2.17	48.94	39.18	0.08	0.07	0.06	8864.48	0.10	1.40	9,283.19
Subtotal	2.17	48.94	39.18	0.08	0.07	8,864.48	0.10	1.40	9,283.19

TOTAL 3.75 112.39 81.05 0.79 82.05 21.23 82,771.30 0.35 11.79 86,292.76

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

**Notes:**

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	487	177,755
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325



Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS -	ROG_DIURN -	DIURN_Combined -
															Calculated	Calculated	Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.012718185	10.59319841	0	0	0	0	0			
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.014451182	0.223808229	0	0	0	0	0			
				<b>HHDT and MHDT Composite</b>				<b>0.0128</b>	<b>10.0078</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>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309548.7892	12857053.58	1432614.993	0.010058608	0	0.268976747	0.106699203	0.260541381	0	2.410994252			
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03023386	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001232249	0	0.527372899	0.039978639	0.035146865	0	0.849116395			
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31233.77168	1048128.245	133722.8767	0.045241058	0	0.611975395	0.28552943	0.806364173	0	6.533736596			
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.311387166	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001112393	0	0.527372899	0.023158636	0.019180819	0	0.456532096			
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137725.5016	5643211.721	641066.7964	0.013428078	0	0.332648851	0.103792391	0.271308899	0	2.445693043			
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.011726532	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001161717	0	0.527372899	0.024897045	0.021703346	0	0.527035022			
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18161.87327	104842.2951	36323.74653	1.248917851	0	1.267945401	3.849006382	4.218925364	0	9.189921491			
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0185</b>	<b>0.0000</b>	<b>0.3044</b>	<b>0.1283</b>	<b>0.2963</b>	<b>0.0000</b>	<b>2.5390</b>	<b>0.617167</b>	<b>0.617167</b>	<b>1.9634</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014478685	12.05955003	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.016451571	0.254788632	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0146</b>	<b>11.3931</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309548.7892	12857053.58	1432614.993	0.014677497	0	0.294495681	0.106699203	0.260541381	0	2.410994252	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03441924	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001798095	0	0.577406943	0.039978639	0.035146865	0	0.849116395	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31233.77168	1048128.245	133722.8767	0.066003083	0	0.670035009	0.28552943	0.806364173	0	6.533736596	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.354493586	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001623201	0	0.577406943	0.023158636	0.019180819	0	0.456532096	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137725.5016	5643211.721	641066.7964	0.019593394	0	0.364208552	0.103792391	0.271308899	0	2.445693043	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.013349877	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001695175	0	0.577406943	0.024897045	0.021703346	0	0.527035022	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18161.87327	104842.2951	36323.74653	1.491381743	0	1.378278975	3.849006382	4.218925364	0	9.189921491	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0253</b>	<b>0.0000</b>	<b>0.3333</b>	<b>0.1283</b>	<b>0.2963</b>	<b>0.0000</b>	<b>2.5390</b>	<b>0.617167</b>	<b>0.617167</b>	<b>1.9923</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Summer NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1.408110648	112.8056881	2.42738497
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.781172654	11.76419622	1.385943889
							<b>HHDT and MHDT Composite</b>	<b>1.3727</b>	<b>107.1015</b>	<b>2.3686</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.037945812	0	0.240428304
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.245451406	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.00242669	0	0.41200887
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.173827483	0	0.466861692
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	1.632336223	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.002190655	0	0.41200887
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.067788903	0	0.33264245
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.050713304	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.00228779	0	0.41200887
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.57071137	0	0.152419235
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0538</b>	<b>0.0000</b>	<b>0.2721</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.04341779	145.4124949	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.052439828	6.467688293	0
							<b>HHDT and MHDT Composite</b>	<b>0.0439</b>	<b>137.5685</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	1.088999987	0	2.619229508
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.35681795	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.292593789	0	3.241398462
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	2.831669697	0	5.821887159
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	2.024169148	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.264134279	0	3.241398462
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	1.284334616	0	3.127232474
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.113374439	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.27584622	0	3.241398462
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	17.81361614	0	7.329319501
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>1.2571</b>	<b>0.0000</b>	<b>2.9344</b>



**Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Summer SO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX	SO2_IDLEX	SO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014502414	0.214941242	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.010258958	0.019030183	0
							<b>HHDT and MHDT Composite</b>	<b>0.0143</b>	<b>0.2039</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.003166923	0	0.000687598
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.002332183	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.00140351	0	0.000684347
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.003770386	0	0.000887103
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.004101035	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001266996	0	0.000740065
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003836398	0	0.000866352
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.003050931	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001323175	0	0.00080434
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001948939	0	0.000527947
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0032</b>	<b>0.0000</b>	<b>0.0007</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.0344964	0.039612223	0	0.035930262	0.070364256	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.012533257	0.022366891	0	0.012000003	0.041711441	
							<b>HHDT and MHDT Composite</b>	<b>0.0333</b>	<b>0.0386</b>	<b>0.0000</b>	<b>0.0346</b>	<b>0.0687</b>	<b>0.136582</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001261576	0	0.002108692	0.008000002	0.005480212	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.020323255	0	0	0.008000002	0.005582816	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.008000002	0.004367245	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000636178	0	0.002176869	0.008000002	0.003517448	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.00225597	0	0.003742015	0.008000002	0.006739005	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.256798693	0	0	0.008000002	0.007623684	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.008000002	0.004374654	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000389778	0	0.001488873	0.008000002	0.003590741	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001298034	0	0.002148377	0.008000002	0.006401396	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005336553	0	0	0.008000002	0.006269843	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.008000002	0.004358152	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000483571	0	0.00176484	0.008000002	0.003559892	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001925633	0	0.00334752	0.004000001	0.012000003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0013</b>	<b>0.0000</b>	<b>0.0022</b>	<b>0.0080</b>	<b>0.0057</b>	<b>0.015032</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.033004101	0.037898616	0	0.008982565	0.02462749	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.011991074	0.021399309	0	0.003000001	0.014599004	
				<b>HHDT and MHDT Composite</b>				<b>0.0318</b>	<b>0.0370</b>	<b>0.0000</b>	<b>0.0086</b>	<b>0.0241</b>	<b>0.064524</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001159973	0	0.001938864	0.002000001	0.001918074	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.01944408	0	0	0.002000001	0.001953986	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.002000001	0.001528536	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000584942	0	0.002001551	0.002000001	0.001231107	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.002074351	0	0.003440799	0.002000001	0.002358652	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.245689696	0	0	0.002000001	0.002668289	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.002000001	0.001531129	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000358387	0	0.001368963	0.002000001	0.001256759	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001193498	0	0.001975362	0.002000001	0.002240489	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005105696	0	0	0.002000001	0.002194445	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.002000001	0.001525353	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000444625	0	0.001622705	0.002000001	0.001245962	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001803546	0	0.003151773	0.001	0.004200001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0012</b>	<b>0.0000</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.005208</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1531.502577	22698.50214	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	1083.379706	2009.649887	0
<b>HHDT and MHDT Composite</b>								<b>1506.2041</b>	<b>21530.5267</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	320.3436389	0	69.55262121
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	246.1275281	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	141.969165	0	69.22368837
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	381.3857557	0	89.7331098
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	432.8036569	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	128.1603524	0	74.85981029
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	388.0630281	0	87.63408802
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	321.9807126	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	133.8430924	0	81.36134139
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	197.1409845	0	53.40335768
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>326.2682</b>	<b>0.0000</b>	<b>73.0381</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Summer N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.241288855	3.576158256	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.170686914	0.316621158	0
<b>HHDT and MHDT Composite</b>								<b>0.2373</b>	<b>3.3921</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.004319988	0	0.032483606
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.038777492	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000310813	0	0.052703774
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.012102811	0	0.042553536
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.068188392	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000278213	0	0.052316978
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.005787179	0	0.037228278
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.050728192	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000290917	0	0.052377811
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.039378858	0	0.009330154
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0333</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.000590727	0.49202663	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.00067122	0.010395313	0
								<b>0.0006</b>	<b>0.4648</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.002689084	0	0.060718477
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.001404305	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000334457	0	0.111349428
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.010107354	0	0.115162371
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.014463339	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000300759	0	0.110976277
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003438602	0	0.072615371
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.000544675	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000314277	0	0.111035323
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.187729286	0	0.171036269
								<b>0.0040</b>	<b>0.0000</b>	<b>0.0677</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/ve

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT
San Bernardino	2024	HHDT	Aggregate	Aggregate	Gasoline	2.673715	179.0665	179.0665
San Bernardino	2024	HHDT	Aggregate	Aggregate	Diesel	12941.96	2664602	2664602
San Bernardino	2024	HHDT	Aggregate	Aggregate	Electricity	35.13403	5737.248	0
San Bernardino	2024	HHDT	Aggregate	Aggregate	Natural Gas	34.45533	2463.306	2463.306
San Bernardino	2024	LDA	Aggregate	Aggregate	Gasoline	309548.8	12857054	12857054
San Bernardino	2024	LDA	Aggregate	Aggregate	Diesel	1034.982	34051.72	34051.72
San Bernardino	2024	LDA	Aggregate	Aggregate	Electricity	13623.83	668545.7	0
San Bernardino	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	8183.17	405777.6	200859.8
San Bernardino	2024	LDT1	Aggregate	Aggregate	Gasoline	31233.77	1048128	1048128
San Bernardino	2024	LDT1	Aggregate	Aggregate	Diesel	15.99626	215.2408	215.2408
San Bernardino	2024	LDT1	Aggregate	Aggregate	Electricity	48.63774	2207.053	0
San Bernardino	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	34.41015	1839.252	821.875
San Bernardino	2024	LDT2	Aggregate	Aggregate	Gasoline	137725.5	5643212	5643212
San Bernardino	2024	LDT2	Aggregate	Aggregate	Diesel	435.2925	19152.63	19152.63
San Bernardino	2024	LDT2	Aggregate	Aggregate	Electricity	786.421	29403.8	0
San Bernardino	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1052.188	54079.06	25236.9
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Gasoline	13065.12	480544.7	480544.7
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Diesel	11067.9	409320.1	409320.1
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Electricity	35.57308	2743.201	0
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Gasoline	1727.12	62917.63	62917.63
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Diesel	4731.795	180893.1	180893.1
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Electricity	9.207425	672.7299	0
San Bernardino	2024	MCY	Aggregate	Aggregate	Gasoline	18161.87	104842.3	104842.3
San Bernardino	2024	MDV	Aggregate	Aggregate	Gasoline	104992.7	4103194	4103194
San Bernardino	2024	MDV	Aggregate	Aggregate	Diesel	1714.881	69248.41	69248.41
San Bernardino	2024	MDV	Aggregate	Aggregate	Electricity	866.9962	32393.89	0
San Bernardino	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	687.47	33162.76	15987.57
San Bernardino	2024	MH	Aggregate	Aggregate	Gasoline	3091.372	26724.27	26724.27
San Bernardino	2024	MH	Aggregate	Aggregate	Diesel	1276.897	11012.11	11012.11
San Bernardino	2024	MHDT	Aggregate	Aggregate	Gasoline	898.6661	63890.7	63890.7
San Bernardino	2024	MHDT	Aggregate	Aggregate	Diesel	2714.455	159428.8	159428.8
San Bernardino	2024	MHDT	Aggregate	Aggregate	Electricity	10.10311	832.4896	0
San Bernardino	2024	MHDT	Aggregate	Aggregate	Natural Gas	8.40173	390.5243	390.5243
San Bernardino	2024	OBUS	Aggregate	Aggregate	Gasoline	271.7825	16376.94	16376.94
San Bernardino	2024	OBUS	Aggregate	Aggregate	Diesel	72.39768	4993.524	4993.524
San Bernardino	2024	OBUS	Aggregate	Aggregate	Electricity	0.54618	69.45386	0
San Bernardino	2024	SBUS	Aggregate	Aggregate	Gasoline	96.21443	6087.086	6087.086
San Bernardino	2024	SBUS	Aggregate	Aggregate	Diesel	625.5916	14655.09	14655.09



San Bernar	2024 SBUS	Aggregate	Aggregate	Electricity	1.465134	49.32793	0
San Bernar	2024 UBUS	Aggregate	Aggregate	Gasoline	55.17381	5264.992	5264.992
San Bernar	2024 UBUS	Aggregate	Aggregate	Diesel	2.53104	250.3344	250.3344
San Bernar	2024 UBUS	Aggregate	Aggregate	Electricity	0.196662	20.74125	0
San Bernar	2024 UBUS	Aggregate	Aggregate	Natural Ga:	103.8995	13723.76	13723.76

RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIUR

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR
0	53.4957	0	7.329555	0	0.486196	0.003334	0	0.0019
0	271358	0	1.408111	112.8057	2.427385	0.033004	0.037899	0
5737.248	742.386	10331.4	0	0	0	0	0	0
0	393.3144	0	0.330292	17.52857	0	0.001144	0.040868	0
0	1432615	0	0.037946	0	0.240428	0.00116	0	0.001939
0	4387.458	0	0.245451	0	0	0.019444	0	0
668545.7	68261.16	258113.8	0	0	0	0	0	0
204917.8	40220.28	61891.28	0.002427	0	0.412009	0.000585	0	0.002002
0	133722.9	0	0.173827	0	0.466862	0.002074	0	0.003441
0	45.44046	0	1.632336	0	0	0.24569	0	0
2207.053	236.5316	852.1047	0	0	0	0	0	0
1017.377	169.1259	307.2781	0.002191	0	0.412009	0.000358	0	0.001369
0	641066.8	0	0.067789	0	0.332642	0.001193	0	0.001975
0	2086.776	0	0.050713	0	0	0.005106	0	0
29403.8	4021.287	11352.29	0	0	0	0	0	0
28842.16	5171.505	8711.193	0.002288	0	0.412009	0.000445	0	0.001623
0	194650.9	0	0.205646	0.037513	0.61824	0.001282	0	0.000389
0	139220.3	0	2.206489	2.188279	0	0.030019	0.026605	0
2743.201	496.9334	1562.659	0	0	0	0	0	0
0	25731.52	0	0.156365	0.037998	0.638846	0.00105	0	0.000266
0	59520.03	0	1.557885	2.126766	0	0.025532	0.026268	0
672.7299	121.8784	383.2793	0	0	0	0	0	0
0	36323.75	0	0.570711	0	0.152419	0.001804	0	0.003152
0	477060.3	0	0.122032	0	0.46682	0.001269	0	0.002144
0	7926.713	0	0.15295	0	0	0.009206	0	0
32393.89	4432.254	12506.72	0	0	0	0	0	0
17175.19	3378.915	5187.419	0.002363	0	0.412009	0.000574	0	0.002016
0	309.2608	0	0.40751	0	0.395619	0.00123	0	0.000385
0	127.6897	0	4.511025	0	0	0.178124	0	0
0	17980.51	0	0.380068	0.092297	0.412107	0.000915	0	0.000496
0	36098.94	0	0.781173	11.7642	1.385944	0.011991	0.021399	0
832.4896	156.5455	1045.721	0	0	0	0	0	0
0	43.10088	0	0.045759	7.740127	0	0.000809	0.027299	0
0	5437.823	0	0.563376	0.064715	0.388951	0.000786	0	0.00032
0	858.0604	0	2.251016	12.85504	1.5866	0.066288	0.029035	0
69.45386	10.92798	88.41018	0	0	0	0	0	0
0	384.8577	0	0.540001	0.924107	0.651347	0.001275	0	0.000575
0	9058.566	0	3.166909	20.91168	0.563438	0.019633	0.014611	0

49.32793	18.07613	67.10348	0	0	0	0	0	0
0	220.6952	0	0.239394	0	0.944086	0.001946	0	0.000962
0	10.12416	0	0.458252	0	0	0.004369	0	0
20.74125	0.786648	43.97161	0	0	0	0	0	0
0	415.5981	0	0.381684	0	0	0.000287	0	0

IN

PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM1	PM10_PMI	CO2_RUNE	CO2_IDLEX
0.005	0.027904	0.003626	0	0.002067	0.02	0.079726	2265.071	0
0.008983	0.024627	0.034496	0.039612	0	0.03593	0.070364	1531.503	22698.5
0.008976	0.012309	0	0	0	0.035905	0.035168	0	0
0.009	0.026903	0.001244	0.044447	0	0.036	0.076865	1126.752	13234.19
0.002	0.001918	0.001262	0	0.002109	0.008	0.00548	320.3436	0
0.002	0.001954	0.020323	0	0	0.008	0.005583	246.1275	0
0.002	0.001529	0	0	0	0.008	0.004367	0	0
0.002	0.001231	0.000636	0	0.002177	0.008	0.003517	141.9692	0
0.002	0.002359	0.002256	0	0.003742	0.008	0.006739	381.3858	0
0.002	0.002668	0.256799	0	0	0.008	0.007624	432.8037	0
0.002	0.001531	0	0	0	0.008	0.004375	0	0
0.002	0.001257	0.00039	0	0.001489	0.008	0.003591	128.1604	0
0.002	0.00224	0.001298	0	0.002148	0.008	0.006401	388.063	0
0.002	0.002194	0.005337	0	0	0.008	0.00627	321.9807	0
0.002	0.001525	0	0	0	0.008	0.004358	0	0
0.002	0.001246	0.000484	0	0.001765	0.008	0.00356	133.8431	0
0.002	0.0273	0.001394	0	0.000423	0.008	0.078	646.4514	120.5513
0.003	0.0273	0.031376	0.027808	0	0.012	0.078	494.6034	135.2356
0.002	0.01365	0	0	0	0.008	0.039	0	0
0.002	0.03185	0.001142	0	0.000289	0.008	0.091	722.6022	139.3193
0.003	0.03185	0.026687	0.027456	0	0.012	0.091	593.473	215.5093
0.002	0.015925	0	0	0	0.008	0.0455	0	0
0.001	0.0042	0.001926	0	0.003348	0.004	0.012	197.141	0
0.002	0.002336	0.00138	0	0.002331	0.008	0.006673	475.7716	0
0.002	0.002337	0.009622	0	0	0.008	0.006677	441.4086	0
0.002	0.001525	0	0	0	0.008	0.004358	0	0
0.002	0.001238	0.000625	0	0.002192	0.008	0.003538	138.2678	0
0.003	0.014602	0.001338	0	0.000419	0.012	0.041719	1804.146	0
0.004	0.014597	0.186178	0	0	0.016	0.041706	969.8096	0
0.003	0.014602	0.000995	0	0.00054	0.012	0.041719	1656.781	565.1267
0.003	0.014599	0.012533	0.022367	0	0.012	0.041711	1083.38	2009.65
0.003	0.0073	0	0	0	0.012	0.020857	0	0
0.003	0.014597	0.00088	0.02969	0	0.012	0.041706	730.1224	6918.338
0.003	0.014597	0.000855	0	0.000349	0.012	0.041707	1694.008	381.3668
0.003	0.019047	0.069285	0.030348	0	0.012	0.054419	1344.179	2664.606
0.003	0.007299	0	0	0	0.012	0.020853	0	0
0.002	0.016396	0.001387	0	0.000625	0.008	0.046845	889.9818	2593.679
0.003	0.016396	0.020521	0.015271	0	0.012	0.046845	1246.564	2233.608

0.002549	0.008198	0	0	0	0.010195	0.023423	0	0
0.002969	0.038292	0.002116	0	0.001047	0.011875	0.109404	2266.813	0
0.005655	0.0385	0.004567	0	0	0.022619	0.11	1280.928	0
0.00616	0.01925	0	0	0	0.02464	0.055	0	0
0.006394	0.038459	0.000299	0	0	0.025576	0.109884	1877.58	0

CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX
52.64638	0.323475	0	9.75E-05	0.202957	0	0.011938	2.088232	0
0	0.000591	0.492027	0	0.241289	3.576158	0	0.012718	10.5932
0	0	0	0	0	0	0	0	0
0	0.847448	49.2613	0	0.229696	2.697877	0	0.012108	0.703847
69.55262	0.002689	0	0.060718	0.00432	0	0.032484	0.010059	0
0	0.001404	0	0	0.038777	0	0	0.030234	0
0	0	0	0	0	0	0	0	0
69.22369	0.000334	0	0.111349	0.000311	0	0.052704	0.001232	0
89.73311	0.010107	0	0.115162	0.012103	0	0.042554	0.045241	0
0	0.014463	0	0	0.068188	0	0	0.311387	0
0	0	0	0	0	0	0	0	0
74.85981	0.000301	0	0.110976	0.000278	0	0.052317	0.001112	0
87.63409	0.003439	0	0.072615	0.005787	0	0.037228	0.013428	0
0	0.000545	0	0	0.050728	0	0	0.011727	0
0	0	0	0	0	0	0	0	0
81.36134	0.000314	0	0.111035	0.000291	0	0.052378	0.001162	0
25.15118	0.0078	0.11709	0.034308	0.011523	0.003047	0.049257	0.039484	0.429379
0	0.005419	0.005098	0	0.077925	0.021306	0	0.116658	0.10976
0	0	0	0	0	0	0	0	0
25.25114	0.004307	0.120245	0.033362	0.009685	0.00312	0.050866	0.020058	0.435647
0	0.00435	0.005098	0	0.093502	0.033954	0	0.093651	0.10976
0	0	0	0	0	0	0	0	0
53.40336	0.187729	0	0.171036	0.039379	0	0.00933	1.248918	0
109.0458	0.005693	0	0.097718	0.008915	0	0.043543	0.023984	0
0	0.000766	0	0	0.069544	0	0	0.016502	0
0	0	0	0	0	0	0	0	0
100.2704	0.000323	0	0.110582	0.000298	0	0.051915	0.0012	0
31.11118	0.01432	0	0.036441	0.025138	0	0.04344	0.063137	0
0	0.00418	0	0	0.152794	0	0	0.09	0
45.50627	0.011863	0.253035	0.046492	0.020215	0.008303	0.033747	0.05695	0.941093
0	0.000671	0.010395	0	0.170687	0.316621	0	0.014451	0.223808
0	0	0	0	0	0	0	0	0
0	0.434381	18.54361	0	0.14884	1.410348	0	0.006206	0.264952
31.52789	0.015957	0.200227	0.036381	0.026713	0.005522	0.031057	0.078449	0.741098
0	0.004069	0.0469	0	0.211776	0.41981	0	0.087607	1.009754
0	0	0	0	0	0	0	0	0
52.21601	0.018134	2.516672	0.059832	0.028687	0.089484	0.06188	0.089386	10.6061
0	0.003116	0.007917	0	0.196397	0.351906	0	0.067084	0.170453

0	0	0	0	0	0	0	0	0
116.8015	0.006553	0	0.124797	0.021412	0	0.085409	0.02174	0
0	0.003096	0	0	0.201811	0	0	0.066667	0
0	0	0	0	0	0	0	0	0
0	2.200091	0	0	0.382757	0	0	0.031608	0

ROG_STRE)	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_HOTS	TOG_RUNL
0.000507	0.145688	1.244811	17.8705	3.047144	0	0.000555	0.145688	1.244811
0	0	0	0	0.014479	12.05955	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.864882	50.27476	0	0	0
0.268977	0.106699	0.260541	2.410994	0.014677	0	0.294496	0.106699	0.260541
0	0	0	0	0.034419	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.039979	0.035147	0.849116	0.001798	0	0.577407	0.039979	0.035147
0.611975	0.285529	0.806364	6.533737	0.066003	0	0.670035	0.285529	0.806364
0	0	0	0	0.354494	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.023159	0.019181	0.456532	0.001623	0	0.577407	0.023159	0.019181
0.332649	0.103792	0.271309	2.445693	0.019593	0	0.364209	0.103792	0.271309
0	0	0	0	0.01335	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.024897	0.021703	0.527035	0.001695	0	0.577407	0.024897	0.021703
0.170357	0.068443	0.372526	5.500122	0.057615	0.626549	0.186519	0.068443	0.372526
0	0	0	0	0.132807	0.124954	0	0	0
0	0	0	0	0	0	0	0	0
0.16211	0.057193	0.298719	4.545242	0.029269	0.635695	0.17749	0.057193	0.298719
0	0	0	0	0.106615	0.124954	0	0	0
0	0	0	0	0	0	0	0	0
1.267945	3.849006	4.218925	9.189921	1.491382	0	1.378279	3.849006	4.218925
0.484968	0.135453	0.379885	3.174604	0.034973	0	0.530978	0.135453	0.379885
0	0	0	0	0.018787	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.030087	0.025671	0.641876	0.001751	0	0.577407	0.030087	0.025671
0.150077	15.42256	0.341987	8.26915	0.092129	0	0.164316	15.42256	0.341987
0	0	0	0	0.102459	0	0	0	0
0.244727	0.04138	0.316738	5.309558	0.083101	1.373241	0.267946	0.04138	0.316738
0	0	0	0	0.016452	0.254789	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.443317	18.92512	0	0	0
0.18882	0.047374	0.214203	6.09671	0.114472	1.081409	0.206734	0.047374	0.214203
0	0	0	0	0.099733	1.149529	0	0	0
0	0	0	0	0	0	0	0	0
0.337144	0.146509	0.346519	3.573003	0.130431	15.4764	0.369131	0.146509	0.346519
0	0	0	0	0.07637	0.194047	0	0	0



0	0	0	0	0	0	0	0	0	0
0.533372	0.045713	0.102427	1.021472	0.031723	0	0.583976	0.045713	0.102427	
0	0	0	0	0.075895	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	2.245542	0	0	0	0	0

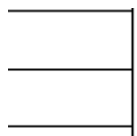
TOG_DIURINH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
17.8705	0.042318	121.162	0	2.975238	0.022393	0 0.00052
0	0.219718	0.043418	145.4125	0	0.014502	0.214941 0
0	0	0	0	0	0	0 0
0	1.039556	6.502342	78.67428	0	0	0 0
2.410994	0.034556	1.089	0	2.61923	0.003167	0 0.000688
0	0.0031	0.356818	0	0	0.002332	0 0
0	0	0	0	0	0	0 0
0.849116	0.019305	0.292594	0	3.241398	0.001404	0 0.000684
6.533737	0.038119	2.83167	0	5.821887	0.00377	0 0.000887
0	0.0031	2.024169	0	0	0.004101	0 0
0	0	0	0	0	0	0 0
0.456532	0.018768	0.264134	0	3.241398	0.001267	0 0.00074
2.445693	0.036501	1.284335	0	3.127232	0.003836	0 0.000866
0	0.0031	0.113374	0	0	0.003051	0 0
0	0	0	0	0	0	0 0
0.527035	0.019572	0.275846	0	3.241398	0.001323	0 0.000804
5.500122	0.044851	1.603433	3.743696	2.822576	0.006391	0.001192 0.000249
0	0.150038	0.443177	0.909745	0	0.004687	0.001281 0
0	0	0	0	0	0	0 0
4.545242	0.044964	1.024336	3.760904	2.720886	0.007144	0.001377 0.00025
0	0.167672	0.300594	0.909745	0	0.005623	0.002042 0
0	0	0	0	0	0	0 0
9.189921	0.008666	17.81362	0	7.32932	0.001949	0 0.000528
3.174604	0.035277	1.723522	0	3.612936	0.004703	0 0.001078
0	0.0031	0.252923	0	0	0.004183	0 0
0	0	0	0	0	0	0 0
0.641876	0.020248	0.284965	0	3.241398	0.001367	0 0.000991
8.26915	0.044835	1.939189	0	3.176455	0.017836	0 0.000308
0	0.111858	0.380073	0	0	0.009189	0 0
5.309558	0.044973	1.34754	10.4271	5.135084	0.016379	0.005587 0.00045
0	0.213549	0.05244	6.467688	0	0.010259	0.01903 0
0	0	0	0	0	0	0 0
0	1.06	1.072712	54.0374	0	0	0 0
6.09671	0.044881	1.996013	5.743476	3.865889	0.016747	0.00377 0.000312
0	0.204062	0.254912	13.87871	0	0.012729	0.025232 0
0	0	0	0	0	0	0 0
3.573003	0.045	1.801215	82.02583	6.771819	0.008798	0.025641 0.000516
0	0.161354	0.188824	4.837773	0	0.011804	0.021151 0

0	0	0	0	0	0	0	0
1.021472	0.045	0.375463	0	8.139949	0.02241	0	0.001155
0	0.22	0.076071	0	0	0.012137	0	0
0	0	0	0	0	0	0	0
0	0.97	28.53733	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325

2024 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.55	61.78	1.89	0.61	1.43	1.37	64,685.57	0.03	10.19	67,723.19
0.49	1.69	22.06	0.08	0.04	0.03	8,009.73	0.11	0.16	8,059.06
<i>Subtotal</i>									
1.04	63.47	23.95	0.69	1.46	1.40	72,695.29	0.13	10.35	75,782.26

PM10	PM2.5
Paved Road - PM only	
72.15	17.71
8.36	2.05
<i>Subtotal</i>	
80.51	19.76

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.61	0.48	5.84	0.00	0.00	0.00	124.49	0.13	0.06	144.92
<i>Subtotal</i>									
0.61	3.02	5.84	0.00	0.00	0.00	124.49	0.13	0.06	144.92

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
1.94	52.94	41.45	0.09	0.10	0.09	9052.16	0.09	1.43	9,479.40
<i>Subtotal</i>									
1.94	52.94	41.45	0.09	0.10	0.09	9,052.16	0.09	1.43	9,479.40
<b>TOTAL</b>									
3.59	119.43	71.23	0.78	82.08	21.26	81,871.95	0.35	11.83	85,406.58

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	7,305	2,666,325





Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.012718185	9.1804949	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.014451182	0.212357119	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0128</b>	<b>8.6742</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>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.009285777	0	0.320609202	0.09564721	0.249720655	0	1.629510669	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.03023386	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.001138406	0	0.724457172	0.035331043	0.032275616	0	0.500204116	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31,233.77	1,048,128.25	133,722.88	0.041543038	0	0.732552183	0.250683446	0.773960347	0	4.261393561	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.311387166	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001027678	0	0.724457172	0.020570722	0.017794542	0	0.292360499	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137,725.50	5,643,211.72	641,066.80	0.012389889	0	0.396918342	0.093188827	0.261017829	0	1.69885173	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.011726532	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001073246	0	0.724457172	0.021924656	0.019956947	0	0.325300206	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18,161.87	104,842.30	36,323.75	1.263715153	0	1.431449323	3.61561626	4.171478753	0	5.200283702	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0176</b>	<b>0.0000</b>	<b>0.3649</b>	<b>0.1156</b>	<b>0.2849</b>	<b>0.0000</b>	<b>1.7141</b>	<b>0.409732</b>	<b>0.409732</b>	<b>1.5849</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014478685	10.45129461	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.016451571	0.241752415	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0146</b>	<b>9.8749</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.013549783	0	0.35102672	0.09564721	0.249720655	0	1.629510669	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.03441924	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.00166116	0	0.793189415	0.035331043	0.032275616	0	0.500204116	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31,233.77	1,048,128.25	133,722.88	0.060609793	0	0.80205125	0.250683446	0.773960347	0	4.261393561	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.354493586	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001499585	0	0.793189415	0.020570722	0.017794542	0	0.292360499	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137,725.50	5,643,211.72	641,066.80	0.018078659	0	0.434575544	0.093188827	0.261017829	0	1.69885173	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.013349877	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001566078	0	0.793189415	0.021924656	0.019956947	0	0.325300206	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18,161.87	104,842.30	36,323.75	1.507564276	0	1.555992756	3.61561626	4.171478753	0	5.200283702	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0240</b>	<b>0.0000</b>	<b>0.3994</b>	<b>0.1156</b>	<b>0.2849</b>	<b>0.0000</b>	<b>1.7141</b>	<b>0.409732</b>	<b>0.409732</b>	<b>1.6195</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Winter NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1.475527027	126.6820882	2.42738497
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.82078784	12.47757341	1.385943889
							<b>HHDT and MHDT Composite</b>	<b>1.4386</b>	<b>120.2347</b>	<b>2.3686</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.042620373	0	0.252575833
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.257796436	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.002723445	0	0.458502226
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.19535692	0	0.491360508
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	1.714406878	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.002458545	0	0.458502226
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.076142518	0	0.349566134
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.053267871	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.002567559	0	0.458502226
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.654074024	0	0.163047837
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0605</b>	<b>0.0000</b>	<b>0.2865</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.04341779	150.0371202	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.052439828	7.04424963	0
							<b>HHDT and MHDT Composite</b>	<b>0.0439</b>	<b>141.9646</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.657791987	0	3.085341736
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.35681795	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.17950143	0	5.276521162
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	1.735291498	0	6.943929166
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	2.024169148	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.162041993	0	5.276521162
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.776523948	0	3.700528024
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.113374439	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.169227074	0	5.276521162
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	16.71679091	0	7.557518405
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.7910</b>	<b>0.0000</b>	<b>3.4775</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014502414	0.221580389	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.010258958	0.01932122	0
						<b>HHDT and MHDT Composite</b>		<b>0.0143</b>	<b>0.2102</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.002762676	0	0.000696625
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.002332183	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.001223753	0	0.000722815
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.003325204	0	0.000908708
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.004101035	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001104723	0	0.000778534
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.003427595	0	0.000877479
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.003050931	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001153707	0	0.000842808
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001932213	0	0.000536895
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0028</b>	<b>0.0000</b>	<b>0.0007</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.0344964	0.051706129	0	0.035930262	0.070364256	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.012533257	0.031999688	0	0.012000003	0.041711441	
							<b>HHDT and MHDT Composite</b>	<b>0.0333</b>	<b>0.0506</b>	<b>0.0000</b>	<b>0.0346</b>	<b>0.0687</b>	<b>0.136582</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.001261576	0	0.002108692	0.008000002	0.005480212	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.020323255	0	0	0.008000002	0.005582816	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0.008000002	0.004367245	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000636178	0	0.002176869	0.008000002	0.003517448	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.00225597	0	0.003742015	0.008000002	0.006739005	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.256798693	0	0	0.008000002	0.007623684	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0.008000002	0.004374654	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000389778	0	0.001488873	0.008000002	0.003590741	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.001298034	0	0.002148377	0.008000002	0.006401396	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.005336553	0	0	0.008000002	0.006269843	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0.008000002	0.004358152	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000483571	0	0.00176484	0.008000002	0.003559892	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001925633	0	0.00334752	0.004000001	0.012000003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0013</b>	<b>0.0000</b>	<b>0.0022</b>	<b>0.0080</b>	<b>0.0057</b>	<b>0.015032</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.033004101	0.049469345	0	0.008982565	0.02462749	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.011991074	0.030615395	0	0.003000001	0.014599004	
				<b>HHDT and MHDT Composite</b>				<b>0.0318</b>	<b>0.0484</b>	<b>0.0000</b>	<b>0.0086</b>	<b>0.0241</b>	<b>0.064524</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.001159973	0	0.001938864	0.002000001	0.001918074	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.01944408	0	0	0.002000001	0.001953986	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0.002000001	0.001528536	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000584942	0	0.002001551	0.002000001	0.001231107	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.002074351	0	0.003440799	0.002000001	0.002358652	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.245689696	0	0	0.002000001	0.002668289	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0.002000001	0.001531129	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000358387	0	0.001368963	0.002000001	0.001256759	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.001193498	0	0.001975362	0.002000001	0.002240489	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.005105696	0	0	0.002000001	0.002194445	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0.002000001	0.001525353	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000444625	0	0.001622705	0.002000001	0.001245962	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001803546	0	0.003151773	0.001	0.004200001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0012</b>	<b>0.0000</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.005208</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1531.502577	23399.61797	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	1083.379706	2040.384386	0
<b>HHDT and MHDT Composite</b>								<b>1506.2041</b>	<b>22193.7966</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	279.452823	0	70.46565477
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	246.1275281	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	123.7861992	0	73.11488608
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	336.3542636	0	91.91851516
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	432.8036569	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	111.7459761	0	78.75100801
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	346.711349	0	88.75964235
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	321.9807126	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	116.7008886	0	85.2525391
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	195.4490508	0	54.30852632
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>287.2235</b>	<b>0.0000</b>	<b>74.1072</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day



**Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Winter N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.241288855	3.686619341	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.170686914	0.321463391	0
<b>HHDT and MHDT Composite</b>								<b>0.2373</b>	<b>3.4966</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.004725115	0	0.033254257
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.038777492	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000337664	0	0.056775132
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.013198456	0	0.043527917
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.068188392	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000302249	0	0.056358669
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.006324586	0	0.03810046
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.050728192	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.00031605	0	0.05642417
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.043346887	0	0.009588112
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0341</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.000590727	0.42641021	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.00067122	0.009863438	0
<b>HHDT and MHDT Composite</b>								<b>0.0006</b>	<b>0.4029</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.002449397	0	0.07125307
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.001404305	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000296356	0	0.146708161
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.009201604	0	0.136160824
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.014463339	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000266486	0	0.146211398
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.003132748	0	0.085308015
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.000544675	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000278464	0	0.146289965
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.188580888	0	0.191833581
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0038</b>	<b>0.0000</b>	<b>0.0796</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT
San Bernardino	2023	HHDT	Aggregate	Aggregate	Gasoline	3.706021	198.5498	198.5498
San Bernardino	2023	HHDT	Aggregate	Aggregate	Diesel	12541.22	2609489	2609489
San Bernardino	2023	HHDT	Aggregate	Aggregate	Electricity	11.53584	1130.876	0
San Bernardino	2023	HHDT	Aggregate	Aggregate	Natural Gas	33.1908	2419.664	2419.664
San Bernardino	2023	LDA	Aggregate	Aggregate	Gasoline	312180.3	12850026	12850026
San Bernardino	2023	LDA	Aggregate	Aggregate	Diesel	1111.78	36864.07	36864.07
San Bernardino	2023	LDA	Aggregate	Aggregate	Electricity	11324.99	536054.6	0
San Bernardino	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	7422.455	367736.6	186538.3
San Bernardino	2023	LDT1	Aggregate	Aggregate	Gasoline	32278.55	1068871	1068871
San Bernardino	2023	LDT1	Aggregate	Aggregate	Diesel	17.77199	243.407	243.407
San Bernardino	2023	LDT1	Aggregate	Aggregate	Electricity	37.46099	1553.819	0
San Bernardino	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	21.98848	1174.83	541.535
San Bernardino	2023	LDT2	Aggregate	Aggregate	Gasoline	135449.8	5476171	5476171
San Bernardino	2023	LDT2	Aggregate	Aggregate	Diesel	415.1711	18119.07	18119.07
San Bernardino	2023	LDT2	Aggregate	Aggregate	Electricity	534.2571	20036.79	0
San Bernardino	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	841.1396	43428.44	20816.2
San Bernardino	2023	LHDT1	Aggregate	Aggregate	Gasoline	13373.18	482494.3	482494.3
San Bernardino	2023	LHDT1	Aggregate	Aggregate	Diesel	11266.77	414957.4	414957.4
San Bernardino	2023	LHDT2	Aggregate	Aggregate	Gasoline	1757.472	63304.9	63304.9
San Bernardino	2023	LHDT2	Aggregate	Aggregate	Diesel	4751.018	181922.2	181922.2
San Bernardino	2023	MCY	Aggregate	Aggregate	Gasoline	18296.67	105592.6	105592.6
San Bernardino	2023	MDV	Aggregate	Aggregate	Gasoline	106014.1	4096216	4096216
San Bernardino	2023	MDV	Aggregate	Aggregate	Diesel	1733.718	70442.83	70442.83
San Bernardino	2023	MDV	Aggregate	Aggregate	Electricity	582.2451	21819.89	0
San Bernardino	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	554.3277	26581.08	13284.45
San Bernardino	2023	MH	Aggregate	Aggregate	Gasoline	3314.159	28525.3	28525.3
San Bernardino	2023	MH	Aggregate	Aggregate	Diesel	1297.879	11212.43	11212.43
San Bernardino	2023	MHDT	Aggregate	Aggregate	Gasoline	920.2847	63606.39	63606.39
San Bernardino	2023	MHDT	Aggregate	Aggregate	Diesel	2658.088	156869.9	156869.9
San Bernardino	2023	MHDT	Aggregate	Aggregate	Electricity	1.582674	49.98045	0
San Bernardino	2023	MHDT	Aggregate	Aggregate	Natural Gas	7.663496	360.2936	360.2936
San Bernardino	2023	OBUS	Aggregate	Aggregate	Gasoline	281.3228	17086.93	17086.93
San Bernardino	2023	OBUS	Aggregate	Aggregate	Diesel	71.62191	4963.503	4963.503
San Bernardino	2023	SBUS	Aggregate	Aggregate	Gasoline	93.76778	5830.784	5830.784
San Bernardino	2023	SBUS	Aggregate	Aggregate	Diesel	620.8981	14679.02	14679.02
San Bernardino	2023	SBUS	Aggregate	Aggregate	Electricity	0.270902	3.144981	0
San Bernardino	2023	UBUS	Aggregate	Aggregate	Gasoline	55.06245	5254.365	5254.365
San Bernardino	2023	UBUS	Aggregate	Aggregate	Diesel	2.558566	252.3864	252.3864

San Bernar	2023 UBUS	Aggregate	Aggregate	Electricity	0.196662	20.74125	0
San Bernar	2023 UBUS	Aggregate	Aggregate	Natural Ga:	103.6568	13693.46	13693.46

RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIUR

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR
0	74.15006	0	8.28581	0	0.525952	0.004554	0	0.002181
0	263316.6	0	1.532536	127.1948	2.39996	0.033374	0.050074	0
1130.876	250.0654	2035.71	0	0	0	0	0	0
0	378.5864	0	0.367986	17.57389	0	0.0011	0.03907	0
0	1446038	0	0.047472	0	0.264932	0.001204	0	0.002007
0	4735.609	0	0.285968	0	0	0.021968	0	0
536054.6	56930.3	206961.3	0	0	0	0	0	0
181198.3	36481.37	54727.3	0.002793	0	0.458502	0.000632	0	0.002102
0	138205.7	0	0.216874	0	0.519804	0.002233	0	0.003673
0	51.45742	0	1.721444	0	0	0.246881	0	0
1553.819	179.6315	599.9023	0	0	0	0	0	0
633.2954	108.0734	191.2741	0.002538	0	0.458502	0.000378	0	0.001396
0	630136.9	0	0.086393	0	0.377859	0.00124	0	0.002036
0	1989.385	0	0.064454	0	0	0.006593	0	0
20036.79	2743.818	7735.856	0	0	0	0	0	0
22612.24	4134.201	6829.569	0.002639	0	0.458502	0.00048	0	0.001705
0	199240.5	0	0.257206	0.038429	0.658296	0.001298	0	0.000416
0	141721.8	0	2.507187	2.250165	0	0.031632	0.026736	0
0	26183.72	0	0.195577	0.038802	0.677894	0.001056	0	0.000287
0	59761.83	0	1.753912	2.189513	0	0.026544	0.026243	0
0	36593.33	0	0.669209	0	0.168156	0.001804	0	0.003275
0	481739.6	0	0.156683	0	0.532953	0.001342	0	0.002262
0	8068.769	0	0.175262	0	0	0.009663	0	0
21819.89	2989.453	8424.279	0	0	0	0	0	0
13296.63	2724.521	4015.978	0.002751	0	0.458502	0.000651	0	0.002208
0	331.5485	0	0.498798	0	0.403122	0.001295	0	0.000404
0	129.7879	0	4.866308	0	0	0.183217	0	0
0	18413.06	0	0.51271	0.084546	0.442106	0.00094	0	0.000529
0	35240.85	0	0.896769	12.88883	1.374455	0.013003	0.037006	0
49.98045	22.90489	62.74788	0	0	0	0	0	0
0	39.31373	0	0.049479	7.75101	0	0.000799	0.02704	0
0	5628.707	0	0.683688	0.064695	0.404284	0.000776	0	0.000318
0	846.0137	0	2.327394	13.99709	1.580847	0.064464	0.042122	0
0	375.0711	0	0.642906	0.92344	0.695934	0.001298	0	0.000573
0	8990.604	0	3.482866	20.77618	0.551372	0.020708	0.022384	0
3.144981	3.922662	4.27829	0	0	0	0	0	0
0	220.2498	0	0.248456	0	0.95013	0.001936	0	0.000954
0	10.23427	0	0.456415	0	0	0.004387	0	0

20.74125	0.786648	43.95159	0	0	0	0	0	0
0	414.6271	0	0.400546	0	0	0.000286	0	0

IN

PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM1	PM10_PMI	CO2_RUNE	CO2_IDLEX
0.005	0.028905	0.004953	0	0.002372	0.02	0.082585	2400.326	0
0.008982	0.024623	0.034883	0.052339	0	0.03593	0.070351	1555.064	23938.94
0.008992	0.012302	0	0	0	0.035968	0.035148	0	0
0.009	0.026798	0.001196	0.042492	0	0.036	0.076567	1141.054	13210.57
0.002	0.001923	0.001309	0	0.002183	0.008	0.005494	283.9547	0
0.002	0.001953	0.022961	0	0	0.008	0.005581	248.1214	0
0.002	0.001528	0	0	0	0.008	0.004365	0	0
0.002	0.001224	0.000687	0	0.002287	0.008	0.003496	126.919	0
0.002	0.002369	0.002428	0	0.003994	0.008	0.006768	341.3565	0
0.002	0.002678	0.258044	0	0	0.008	0.007651	433.241	0
0.002	0.001533	0	0	0	0.008	0.004381	0	0
0.002	0.001248	0.000411	0	0.001519	0.008	0.003565	115.3312	0
0.002	0.002248	0.001348	0	0.002214	0.008	0.006424	353.9486	0
0.002	0.002192	0.006891	0	0	0.008	0.006264	327.2396	0
0.002	0.001524	0	0	0	0.008	0.004355	0	0
0.002	0.001238	0.000522	0	0.001855	0.008	0.003537	119.9286	0
0.002	0.0273	0.001411	0	0.000453	0.008	0.078	664.1486	121.4211
0.003	0.0273	0.033063	0.027945	0	0.012	0.078	495.8677	136.1875
0.002	0.03185	0.001149	0	0.000312	0.008	0.091	738.5387	140.1927
0.003	0.03185	0.027745	0.02743	0	0.012	0.091	596.2183	216.9759
0.001	0.0042	0.001925	0	0.003474	0.004	0.012	196.0754	0
0.002	0.002345	0.001459	0	0.00246	0.008	0.006699	439.3059	0
0.002	0.002324	0.010099	0	0	0.008	0.006641	445.782	0
0.002	0.001524	0	0	0	0.008	0.004354	0	0
0.002	0.001228	0.000708	0	0.002402	0.008	0.003508	125.0451	0
0.003	0.014602	0.001408	0	0.000439	0.012	0.041719	1805.222	0
0.004	0.014597	0.191501	0	0	0.016	0.041706	969.9511	0
0.003	0.014602	0.001023	0	0.000575	0.012	0.041719	1678.234	514.2031
0.003	0.014599	0.013591	0.03868	0	0.012	0.041711	1089.472	2055.843
0.003	0.007299	0	0	0	0.012	0.020854	0	0
0.003	0.014597	0.000869	0.029408	0	0.012	0.041706	733.8838	6935.425
0.003	0.014594	0.000844	0	0.000346	0.012	0.041696	1716.686	383.2442
0.003	0.019042	0.067379	0.044027	0	0.012	0.054404	1350.621	2717.56
0.002	0.016396	0.001411	0	0.000623	0.008	0.046845	894.8428	2604.874
0.003	0.016396	0.021645	0.023396	0	0.012	0.046845	1250.107	2158.977
0.003	0.008198	0	0	0	0.012	0.023423	0	0
0.002969	0.038292	0.002105	0	0.001038	0.011875	0.109404	2268.233	0
0.005633	0.0385	0.004586	0	0	0.022532	0.11	1279.376	0



0.00616	0.01925	0	0	0	0.02464	0.055	0	0
0.006395	0.038459	0.000299	0	0	0.025578	0.109884	1982.103	0

CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX
52.56296	0.380026	0	8.66E-05	0.215935	0	0.011894	2.439552	0
0	0.000611	0.42797	0	0.245001	3.771591	0	0.013163	9.214074
0	0	0	0	0	0	0	0	0
0	0.848956	50.04434	0	0.232611	2.693061	0	0.01213	0.715035
71.80892	0.002715	0	0.075237	0.005027	0	0.034025	0.010511	0
0	0.001578	0	0	0.039092	0	0	0.033967	0
0	0	0	0	0	0	0	0	0
73.86381	0.000305	0	0.147164	0.000349	0	0.057155	0.001168	0
93.9008	0.01022	0	0.144775	0.014389	0	0.044827	0.046425	0
0	0.014525	0	0	0.068257	0	0	0.312705	0
0	0	0	0	0	0	0	0	0
79.77175	0.000276	0	0.146806	0.000315	0	0.056852	0.001061	0
90.9037	0.003461	0	0.09075	0.006878	0	0.039667	0.013897	0
0	0.000644	0	0	0.051557	0	0	0.01386	0
0	0	0	0	0	0	0	0	0
86.13279	0.000288	0	0.146898	0.000328	0	0.05693	0.001104	0
25.42069	0.00836	0.118585	0.037164	0.01394	0.003013	0.050837	0.042242	0.439785
0	0.00575	0.005098	0	0.078124	0.021456	0	0.123793	0.10976
25.68283	0.004732	0.121623	0.03595	0.011695	0.003086	0.052484	0.022191	0.444774
0	0.004575	0.005098	0	0.093934	0.034185	0	0.09849	0.10976
55.18078	0.193395	0	0.195617	0.043993	0	0.009851	1.305786	0
112.7788	0.005848	0	0.123374	0.010749	0	0.046574	0.025285	0
0	0.000802	0	0	0.070233	0	0	0.017266	0
0	0	0	0	0	0	0	0	0
105.8352	0.000299	0	0.146271	0.000339	0	0.056408	0.001151	0
31.76192	0.015441	0	0.03912	0.02891	0	0.042237	0.068773	0
0	0.004279	0	0	0.152816	0	0	0.09212	0
46.72159	0.014269	0.285725	0.049619	0.025324	0.007214	0.034112	0.070037	1.081986
0	0.000742	0.010594	0	0.171647	0.323899	0	0.015985	0.228093
0	0	0	0	0	0	0	0	0
0	0.43215	18.67798	0	0.149607	1.413832	0	0.006175	0.266871
32.32764	0.016787	0.19913	0.038864	0.031139	0.005345	0.031389	0.08242	0.740801
0	0.003918	0.041506	0	0.212791	0.428153	0	0.084355	0.893617
58.84423	0.01915	2.499689	0.076414	0.032589	0.086144	0.063804	0.094677	10.59636
0	0.003205	0.007674	0	0.196955	0.340148	0	0.068997	0.16522
0	0	0	0	0	0	0	0	0
119.322	0.006375	0	0.131185	0.021958	0	0.085131	0.021169	0
0	0.003084	0	0	0.201566	0	0	0.066398	0

0	0	0	0	0	0	0	0	
0	2.249252	0	0	0.404065	0	0	0.032306	0

ROG_STRE)	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_HOTS	TOG_RUNL
0.000448	0.138378	1.301061	10.79907	3.559789	0	0.00049	0.138378	1.301061
0	0	0	0	0.014985	10.48952	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.866422	51.07392	0	0	0
0.343203	0.099214	0.25765	1.677082	0.015333	0	0.375763	0.099214	0.25765
0	0	0	0	0.038669	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.035103	0.031246	0.500999	0.001704	0	0.793189	0.035103	0.031246
0.786062	0.263385	0.823004	4.460765	0.067722	0	0.860636	0.263385	0.823004
0	0	0	0	0.355994	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.020927	0.01849	0.298975	0.001549	0	0.793189	0.020927	0.01849
0.427667	0.097733	0.27075	1.753312	0.020276	0	0.468242	0.097733	0.27075
0	0	0	0	0.015779	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.022224	0.020621	0.334429	0.001611	0	0.793189	0.022224	0.020621
0.186179	0.063608	0.368166	3.899545	0.06164	0.641733	0.203842	0.063608	0.368166
0	0	0	0	0.140931	0.124954	0	0	0
0.176363	0.052886	0.291087	3.230901	0.032381	0.649013	0.193095	0.052886	0.291087
0	0	0	0	0.112125	0.124954	0	0	0
1.46385	3.614404	4.153156	5.178637	1.552732	0	1.591079	3.614404	4.153156
0.629496	0.12652	0.37239	2.300567	0.036833	0	0.689214	0.12652	0.37239
0	0	0	0	0.019656	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.025974	0.024615	0.400095	0.001679	0	0.793189	0.025974	0.024615
0.162718	13.97299	0.332668	5.473516	0.100354	0	0.178156	13.97299	0.332668
0	0	0	0	0.104872	0	0	0	0
0.265951	0.040038	0.331388	3.53769	0.102198	1.578831	0.291183	0.040038	0.331388
0	0	0	0	0.018198	0.259666	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.441041	19.06225	0	0	0
0.202538	0.042053	0.19907	3.766966	0.120268	1.080976	0.221753	0.042053	0.19907
0	0	0	0	0.096032	1.017315	0	0	0
0.433251	0.131963	0.336689	2.206458	0.138153	15.46218	0.474356	0.131963	0.336689
0	0	0	0	0.078548	0.18809	0	0	0
0	0	0	0	0	0	0	0	0
0.561675	0.038308	0.098193	0.542675	0.030889	0	0.614964	0.038308	0.098193
0	0	0	0	0.075589	0	0	0	0

0	0	0	0	0	0	0	0	0
0	0	0	0	2.295711	0	0	0	0

TOG_DIURINH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
10.79907	0.039142	165.6541	0	2.630345	0.02373	0 0.00052
0	0.219685	0.04772	150.4726	0	0.014726	0.226687 0
0	0	0	0	0	0	0 0
0	1.040621	6.958745	74.70438	0	0	0 0
1.677082	0.033713	0.702107	0	3.270134	0.002807	0 0.00071
0	0.0031	0.375224	0	0	0.002351	0 0
0	0	0	0	0	0	0 0
0.500999	0.019522	0.184088	0	5.276521	0.001255	0 0.00073
4.460765	0.038068	1.900299	0	7.450529	0.003375	0 0.000928
0	0.0031	2.031822	0	0	0.004105	0 0
0	0	0	0	0	0	0 0
0.298975	0.01936	0.167281	0	5.276521	0.00114	0 0.000789
1.753312	0.035691	0.837878	0	3.948761	0.003499	0 0.000899
0	0.0031	0.122176	0	0	0.003101	0 0
0	0	0	0	0	0	0 0
0.334429	0.020094	0.173949	0	5.276521	0.001186	0 0.000852
3.899545	0.044822	1.636724	3.740503	2.951189	0.006566	0.0012 0.000251
0	0.144089	0.478756	0.909745	0	0.004699	0.00129 0
3.230901	0.044958	1.047533	3.757979	2.866613	0.007301	0.001386 0.000254
0	0.163343	0.321356	0.909745	0	0.005649	0.002056 0
5.178637	0.008618	17.16772	0	7.599926	0.001938	0 0.000546
2.300567	0.034633	1.170071	0	4.606045	0.004343	0 0.001115
0	0.0031	0.260294	0	0	0.004224	0 0
0	0	0	0	0	0	0 0
0.400095	0.02099	0.18137	0	5.276521	0.001236	0 0.001046
5.473516	0.04477	2.198026	0	3.559821	0.017846	0 0.000314
0	0.1078	0.387847	0	0	0.009191	0 0
3.53769	0.044925	1.699574	19.77041	5.656834	0.016591	0.005083 0.000462
0	0.212458	0.056358	7.11313	0	0.010317	0.019468 0
0	0	0	0	0	0	0 0
0	1.06	1.092415	53.45212	0	0	0 0
3.766966	0.044876	2.060663	5.741688	4.261334	0.016971	0.003789 0.00032
0	0.204757	0.245559	14.58114	0	0.01279	0.025734 0
2.206458	0.045	1.895875	81.96665	10.62665	0.008846	0.025752 0.000582
0	0.15842	0.191822	5.298591	0	0.011838	0.020444 0
0	0	0	0	0	0	0 0
0.542675	0.045	0.347149	0	9.668563	0.022424	0 0.00118
0	0.22	0.075658	0	0	0.012123	0 0

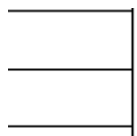
0	0	0	0	0	0	0	0	0
0	0.97	28.97929	0	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip





2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	487	177,755
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,435	888,775

2024 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.55	58.95	1.89	0.61	1.43	1.37	64,685.57	0.03	10.19	67,723.19
0.51	1.50	35.06	0.09	0.04	0.03	9,098.55	0.11	0.14	9,144.17

Subtotal 1.07 60.45 36.94 0.70 1.46 1.40 73,784.12 0.14 10.33 76,867.37

PM10	PM2.5
Paved Road - PM only	
72.15	17.71
8.36	2.05
Subtotal	80.51 19.76

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.51	0.46	4.93	0.00	0.00	0.00	122.70	0.11	0.06	142.20
Subtotal	0.51	3.00	4.93	0.00	0.00	122.70	0.11	0.06	142.20

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.72	16.31	13.06	0.03	0.02	0.02	2954.83	0.03	0.47	3,094.40
Subtotal	0.72	16.31	13.06	0.03	0.02	2,954.83	0.03	0.47	3,094.40

TOTAL 2.30 79.77 54.93 0.73 82.00 21.19 76,861.65 0.29 10.86 80,103.97

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	487	19,480	177,755	7,110,200
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	487	177,755
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,435	888,775



Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS -	ROG_DIURN -	DIURN_Combined -
															Calculated	Calculated	Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.012718185	10.59319841	0	0	0	0	0			
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.014451182	0.223808229	0	0	0	0	0			
				<b>HHDT and MHDT Composite</b>				<b>0.0128</b>	<b>10.0078</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>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309548.7892	12857053.58	1432614.993	0.010058608	0	0.268976747	0.106699203	0.260541381	0	2.410994252			
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03023386	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001232249	0	0.527372899	0.039978639	0.035146865	0	0.849116395			
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31233.77168	1048128.245	133722.8767	0.045241058	0	0.611975395	0.28552943	0.806364173	0	6.533736596			
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.311387166	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001112393	0	0.527372899	0.023158636	0.019180819	0	0.456532096			
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137725.5016	5643211.721	641066.7964	0.013428078	0	0.332648851	0.103792391	0.271308899	0	2.445693043			
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.011726532	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0			
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001161717	0	0.527372899	0.024897045	0.021703346	0	0.527035022			
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18161.87327	104842.2951	36323.74653	1.248917851	0	1.267945401	3.849006382	4.218925364	0	9.189921491			
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0185</b>	<b>0.0000</b>	<b>0.3044</b>	<b>0.1283</b>	<b>0.2963</b>	<b>0.0000</b>	<b>2.5390</b>	<b>0.617167</b>	<b>0.617167</b>	<b>1.9634</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014478685	12.05955003	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.016451571	0.254788632	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0146</b>	<b>11.3931</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309548.7892	12857053.58	1432614.993	0.014677497	0	0.294495681	0.106699203	0.260541381	0	2.410994252	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.03441924	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.001798095	0	0.577406943	0.039978639	0.035146865	0	0.849116395	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31233.77168	1048128.245	133722.8767	0.066003083	0	0.670035009	0.28552943	0.806364173	0	6.533736596	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.354493586	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001623201	0	0.577406943	0.023158636	0.019180819	0	0.456532096	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137725.5016	5643211.721	641066.7964	0.019593394	0	0.364208552	0.103792391	0.271308899	0	2.445693043	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.013349877	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001695175	0	0.577406943	0.024897045	0.021703346	0	0.527035022	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18161.87327	104842.2951	36323.74653	1.491381743	0	1.378278975	3.849006382	4.218925364	0	9.189921491	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0253</b>	<b>0.0000</b>	<b>0.3333</b>	<b>0.1283</b>	<b>0.2963</b>	<b>0.0000</b>	<b>2.5390</b>	<b>0.617167</b>	<b>0.617167</b>	<b>1.9923</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Summer NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1.408110648	112.8056881	2.42738497
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.781172654	11.76419622	1.385943889
							<b>HHDT and MHDT Composite</b>	<b>1.3727</b>	<b>107.1015</b>	<b>2.3686</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.037945812	0	0.240428304
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.245451406	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.00242669	0	0.41200887
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.173827483	0	0.466861692
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	1.632336223	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.002190655	0	0.41200887
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.067788903	0	0.33264245
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.050713304	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.00228779	0	0.41200887
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.57071137	0	0.152419235
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0538</b>	<b>0.0000</b>	<b>0.2721</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.04341779	145.4124949	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.052439828	6.467688293	0
							<b>HHDT and MHDT Composite</b>	<b>0.0439</b>	<b>137.5685</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	1.088999987	0	2.619229508
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.35681795	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.292593789	0	3.241398462
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	2.831669697	0	5.821887159
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	2.024169148	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.264134279	0	3.241398462
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	1.284334616	0	3.127232474
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.113374439	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.27584622	0	3.241398462
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	17.81361614	0	7.329319501
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>1.2571</b>	<b>0.0000</b>	<b>2.9344</b>



**Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Summer SO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX	SO2_IDLEX	SO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014502414	0.214941242	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.010258958	0.019030183	0
							<b>HHDT and MHDT Composite</b>	<b>0.0143</b>	<b>0.2039</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.003166923	0	0.000687598
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.002332183	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.00140351	0	0.000684347
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.003770386	0	0.000887103
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.004101035	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.001266996	0	0.000740065
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003836398	0	0.000866352
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.003050931	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.001323175	0	0.00080434
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001948939	0	0.000527947
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0032</b>	<b>0.0000</b>	<b>0.0007</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.0344964	0.039612223	0	0.035930262	0.070364256	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.012533257	0.022366891	0	0.012000003	0.041711441	
							<b>HHDT and MHDT Composite</b>	<b>0.0333</b>	<b>0.0386</b>	<b>0.0000</b>	<b>0.0346</b>	<b>0.0687</b>	<b>0.136582</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001261576	0	0.002108692	0.008000002	0.005480212	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.020323255	0	0	0.008000002	0.005582816	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.008000002	0.004367245	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000636178	0	0.002176869	0.008000002	0.003517448	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.00225597	0	0.003742015	0.008000002	0.006739005	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.256798693	0	0	0.008000002	0.007623684	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.008000002	0.004374654	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000389778	0	0.001488873	0.008000002	0.003590741	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001298034	0	0.002148377	0.008000002	0.006401396	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005336553	0	0	0.008000002	0.006269843	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.008000002	0.004358152	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000483571	0	0.00176484	0.008000002	0.003559892	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001925633	0	0.00334752	0.004000001	0.012000003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0013</b>	<b>0.0000</b>	<b>0.0022</b>	<b>0.0080</b>	<b>0.0057</b>	<b>0.015032</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.033004101	0.037898616	0	0.008982565	0.02462749	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.011991074	0.021399309	0	0.003000001	0.014599004	
				<b>HHDT and MHDT Composite</b>				<b>0.0318</b>	<b>0.0370</b>	<b>0.0000</b>	<b>0.0086</b>	<b>0.0241</b>	<b>0.064524</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.001159973	0	0.001938864	0.002000001	0.001918074	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.01944408	0	0	0.002000001	0.001953986	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0	0.002000001	0.001528536	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000584942	0	0.002001551	0.002000001	0.001231107	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.002074351	0	0.003440799	0.002000001	0.002358652	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.245689696	0	0	0.002000001	0.002668289	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0	0.002000001	0.001531129	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000358387	0	0.001368963	0.002000001	0.001256759	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.001193498	0	0.001975362	0.002000001	0.002240489	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.005105696	0	0	0.002000001	0.002194445	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0	0.002000001	0.001525353	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000444625	0	0.001622705	0.002000001	0.001245962	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.001803546	0	0.003151773	0.001	0.004200001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0012</b>	<b>0.0000</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.005208</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1531.502577	22698.50214	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	1083.379706	2009.649887	0
<b>HHDT and MHDT Composite</b>								<b>1506.2041</b>	<b>21530.5267</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	320.3436389	0	69.55262121
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	246.1275281	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	141.969165	0	69.22368837
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	381.3857557	0	89.7331098
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	432.8036569	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	128.1603524	0	74.85981029
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	388.0630281	0	87.63408802
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	321.9807126	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	133.8430924	0	81.36134139
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	197.1409845	0	53.40335768
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>326.2682</b>	<b>0.0000</b>	<b>73.0381</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Summer N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.241288855	3.576158256	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.170686914	0.316621158	0
<b>HHDT and MHDT Composite</b>								<b>0.2373</b>	<b>3.3921</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.004319988	0	0.032483606
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.038777492	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000310813	0	0.052703774
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.012102811	0	0.042553536
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.068188392	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000278213	0	0.052316978
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.005787179	0	0.037228278
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.050728192	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000290917	0	0.052377811
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.039378858	0	0.009330154
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0333</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.000590727	0.49202663	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.00067122	0.010395313	0
<b>HHDT and MHDT Composite</b>								<b>0.0006</b>	<b>0.4648</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309548.7892	12857053.58	1432614.993	0.002689084	0	0.060718477
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1034.982141	34051.71651	4387.458195	0.001404305	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13623.83126	668545.7008	68261.15992	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8183.169851	405777.5733	40220.27982	0.000334457	0	0.111349428
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31233.77168	1048128.245	133722.8767	0.010107354	0	0.115162371
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	15.99626011	215.2408333	45.44046384	0.014463339	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.63773853	2207.053268	236.5316467	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41015177	1839.251886	169.1258959	0.000300759	0	0.110976277
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137725.5016	5643211.721	641066.7964	0.003438602	0	0.072615371
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.2924741	19152.63273	2086.775502	0.000544675	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.4209618	29403.79568	4021.287263	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1052.1882	54079.0621	5171.505003	0.000314277	0	0.111035323
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18161.87327	104842.2951	36323.74653	0.187729286	0	0.171036269
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0040</b>	<b>0.0000</b>	<b>0.0677</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/ve

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT
San Bernardino	2024	HHDT	Aggregate	Aggregate	Gasoline	2.673715	179.0665	179.0665
San Bernardino	2024	HHDT	Aggregate	Aggregate	Diesel	12941.96	2664602	2664602
San Bernardino	2024	HHDT	Aggregate	Aggregate	Electricity	35.13403	5737.248	0
San Bernardino	2024	HHDT	Aggregate	Aggregate	Natural Gas	34.45533	2463.306	2463.306
San Bernardino	2024	LDA	Aggregate	Aggregate	Gasoline	309548.8	12857054	12857054
San Bernardino	2024	LDA	Aggregate	Aggregate	Diesel	1034.982	34051.72	34051.72
San Bernardino	2024	LDA	Aggregate	Aggregate	Electricity	13623.83	668545.7	0
San Bernardino	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	8183.17	405777.6	200859.8
San Bernardino	2024	LDT1	Aggregate	Aggregate	Gasoline	31233.77	1048128	1048128
San Bernardino	2024	LDT1	Aggregate	Aggregate	Diesel	15.99626	215.2408	215.2408
San Bernardino	2024	LDT1	Aggregate	Aggregate	Electricity	48.63774	2207.053	0
San Bernardino	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	34.41015	1839.252	821.875
San Bernardino	2024	LDT2	Aggregate	Aggregate	Gasoline	137725.5	5643212	5643212
San Bernardino	2024	LDT2	Aggregate	Aggregate	Diesel	435.2925	19152.63	19152.63
San Bernardino	2024	LDT2	Aggregate	Aggregate	Electricity	786.421	29403.8	0
San Bernardino	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1052.188	54079.06	25236.9
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Gasoline	13065.12	480544.7	480544.7
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Diesel	11067.9	409320.1	409320.1
San Bernardino	2024	LHDT1	Aggregate	Aggregate	Electricity	35.57308	2743.201	0
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Gasoline	1727.12	62917.63	62917.63
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Diesel	4731.795	180893.1	180893.1
San Bernardino	2024	LHDT2	Aggregate	Aggregate	Electricity	9.207425	672.7299	0
San Bernardino	2024	MCY	Aggregate	Aggregate	Gasoline	18161.87	104842.3	104842.3
San Bernardino	2024	MDV	Aggregate	Aggregate	Gasoline	104992.7	4103194	4103194
San Bernardino	2024	MDV	Aggregate	Aggregate	Diesel	1714.881	69248.41	69248.41
San Bernardino	2024	MDV	Aggregate	Aggregate	Electricity	866.9962	32393.89	0
San Bernardino	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	687.47	33162.76	15987.57
San Bernardino	2024	MH	Aggregate	Aggregate	Gasoline	3091.372	26724.27	26724.27
San Bernardino	2024	MH	Aggregate	Aggregate	Diesel	1276.897	11012.11	11012.11
San Bernardino	2024	MHDT	Aggregate	Aggregate	Gasoline	898.6661	63890.7	63890.7
San Bernardino	2024	MHDT	Aggregate	Aggregate	Diesel	2714.455	159428.8	159428.8
San Bernardino	2024	MHDT	Aggregate	Aggregate	Electricity	10.10311	832.4896	0
San Bernardino	2024	MHDT	Aggregate	Aggregate	Natural Gas	8.40173	390.5243	390.5243
San Bernardino	2024	OBUS	Aggregate	Aggregate	Gasoline	271.7825	16376.94	16376.94
San Bernardino	2024	OBUS	Aggregate	Aggregate	Diesel	72.39768	4993.524	4993.524
San Bernardino	2024	OBUS	Aggregate	Aggregate	Electricity	0.54618	69.45386	0
San Bernardino	2024	SBUS	Aggregate	Aggregate	Gasoline	96.21443	6087.086	6087.086
San Bernardino	2024	SBUS	Aggregate	Aggregate	Diesel	625.5916	14655.09	14655.09



San Bernar	2024 SBUS	Aggregate	Aggregate	Electricity	1.465134	49.32793	0
San Bernar	2024 UBUS	Aggregate	Aggregate	Gasoline	55.17381	5264.992	5264.992
San Bernar	2024 UBUS	Aggregate	Aggregate	Diesel	2.53104	250.3344	250.3344
San Bernar	2024 UBUS	Aggregate	Aggregate	Electricity	0.196662	20.74125	0
San Bernar	2024 UBUS	Aggregate	Aggregate	Natural Ga:	103.8995	13723.76	13723.76

RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIUR

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR
0	53.4957	0	7.329555	0	0.486196	0.003334	0	0.0019
0	271358	0	1.408111	112.8057	2.427385	0.033004	0.037899	0
5737.248	742.386	10331.4	0	0	0	0	0	0
0	393.3144	0	0.330292	17.52857	0	0.001144	0.040868	0
0	1432615	0	0.037946	0	0.240428	0.00116	0	0.001939
0	4387.458	0	0.245451	0	0	0.019444	0	0
668545.7	68261.16	258113.8	0	0	0	0	0	0
204917.8	40220.28	61891.28	0.002427	0	0.412009	0.000585	0	0.002002
0	133722.9	0	0.173827	0	0.466862	0.002074	0	0.003441
0	45.44046	0	1.632336	0	0	0.24569	0	0
2207.053	236.5316	852.1047	0	0	0	0	0	0
1017.377	169.1259	307.2781	0.002191	0	0.412009	0.000358	0	0.001369
0	641066.8	0	0.067789	0	0.332642	0.001193	0	0.001975
0	2086.776	0	0.050713	0	0	0.005106	0	0
29403.8	4021.287	11352.29	0	0	0	0	0	0
28842.16	5171.505	8711.193	0.002288	0	0.412009	0.000445	0	0.001623
0	194650.9	0	0.205646	0.037513	0.61824	0.001282	0	0.000389
0	139220.3	0	2.206489	2.188279	0	0.030019	0.026605	0
2743.201	496.9334	1562.659	0	0	0	0	0	0
0	25731.52	0	0.156365	0.037998	0.638846	0.00105	0	0.000266
0	59520.03	0	1.557885	2.126766	0	0.025532	0.026268	0
672.7299	121.8784	383.2793	0	0	0	0	0	0
0	36323.75	0	0.570711	0	0.152419	0.001804	0	0.003152
0	477060.3	0	0.122032	0	0.46682	0.001269	0	0.002144
0	7926.713	0	0.15295	0	0	0.009206	0	0
32393.89	4432.254	12506.72	0	0	0	0	0	0
17175.19	3378.915	5187.419	0.002363	0	0.412009	0.000574	0	0.002016
0	309.2608	0	0.40751	0	0.395619	0.00123	0	0.000385
0	127.6897	0	4.511025	0	0	0.178124	0	0
0	17980.51	0	0.380068	0.092297	0.412107	0.000915	0	0.000496
0	36098.94	0	0.781173	11.7642	1.385944	0.011991	0.021399	0
832.4896	156.5455	1045.721	0	0	0	0	0	0
0	43.10088	0	0.045759	7.740127	0	0.000809	0.027299	0
0	5437.823	0	0.563376	0.064715	0.388951	0.000786	0	0.00032
0	858.0604	0	2.251016	12.85504	1.5866	0.066288	0.029035	0
69.45386	10.92798	88.41018	0	0	0	0	0	0
0	384.8577	0	0.540001	0.924107	0.651347	0.001275	0	0.000575
0	9058.566	0	3.166909	20.91168	0.563438	0.019633	0.014611	0

49.32793	18.07613	67.10348	0	0	0	0	0	0
0	220.6952	0	0.239394	0	0.944086	0.001946	0	0.000962
0	10.12416	0	0.458252	0	0	0.004369	0	0
20.74125	0.786648	43.97161	0	0	0	0	0	0
0	415.5981	0	0.381684	0	0	0.000287	0	0

IN

PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM1	PM10_PM1	CO2_RUNE	CO2_IDLEX
0.005	0.027904	0.003626	0	0.002067	0.02	0.079726	2265.071	0
0.008983	0.024627	0.034496	0.039612	0	0.03593	0.070364	1531.503	22698.5
0.008976	0.012309	0	0	0	0.035905	0.035168	0	0
0.009	0.026903	0.001244	0.044447	0	0.036	0.076865	1126.752	13234.19
0.002	0.001918	0.001262	0	0.002109	0.008	0.00548	320.3436	0
0.002	0.001954	0.020323	0	0	0.008	0.005583	246.1275	0
0.002	0.001529	0	0	0	0.008	0.004367	0	0
0.002	0.001231	0.000636	0	0.002177	0.008	0.003517	141.9692	0
0.002	0.002359	0.002256	0	0.003742	0.008	0.006739	381.3858	0
0.002	0.002668	0.256799	0	0	0.008	0.007624	432.8037	0
0.002	0.001531	0	0	0	0.008	0.004375	0	0
0.002	0.001257	0.00039	0	0.001489	0.008	0.003591	128.1604	0
0.002	0.00224	0.001298	0	0.002148	0.008	0.006401	388.063	0
0.002	0.002194	0.005337	0	0	0.008	0.00627	321.9807	0
0.002	0.001525	0	0	0	0.008	0.004358	0	0
0.002	0.001246	0.000484	0	0.001765	0.008	0.00356	133.8431	0
0.002	0.0273	0.001394	0	0.000423	0.008	0.078	646.4514	120.5513
0.003	0.0273	0.031376	0.027808	0	0.012	0.078	494.6034	135.2356
0.002	0.01365	0	0	0	0.008	0.039	0	0
0.002	0.03185	0.001142	0	0.000289	0.008	0.091	722.6022	139.3193
0.003	0.03185	0.026687	0.027456	0	0.012	0.091	593.473	215.5093
0.002	0.015925	0	0	0	0.008	0.0455	0	0
0.001	0.0042	0.001926	0	0.003348	0.004	0.012	197.141	0
0.002	0.002336	0.00138	0	0.002331	0.008	0.006673	475.7716	0
0.002	0.002337	0.009622	0	0	0.008	0.006677	441.4086	0
0.002	0.001525	0	0	0	0.008	0.004358	0	0
0.002	0.001238	0.000625	0	0.002192	0.008	0.003538	138.2678	0
0.003	0.014602	0.001338	0	0.000419	0.012	0.041719	1804.146	0
0.004	0.014597	0.186178	0	0	0.016	0.041706	969.8096	0
0.003	0.014602	0.000995	0	0.00054	0.012	0.041719	1656.781	565.1267
0.003	0.014599	0.012533	0.022367	0	0.012	0.041711	1083.38	2009.65
0.003	0.0073	0	0	0	0.012	0.020857	0	0
0.003	0.014597	0.00088	0.02969	0	0.012	0.041706	730.1224	6918.338
0.003	0.014597	0.000855	0	0.000349	0.012	0.041707	1694.008	381.3668
0.003	0.019047	0.069285	0.030348	0	0.012	0.054419	1344.179	2664.606
0.003	0.007299	0	0	0	0.012	0.020853	0	0
0.002	0.016396	0.001387	0	0.000625	0.008	0.046845	889.9818	2593.679
0.003	0.016396	0.020521	0.015271	0	0.012	0.046845	1246.564	2233.608

0.002549	0.008198	0	0	0	0.010195	0.023423	0	0
0.002969	0.038292	0.002116	0	0.001047	0.011875	0.109404	2266.813	0
0.005655	0.0385	0.004567	0	0	0.022619	0.11	1280.928	0
0.00616	0.01925	0	0	0	0.02464	0.055	0	0
0.006394	0.038459	0.000299	0	0	0.025576	0.109884	1877.58	0

CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX
52.64638	0.323475	0	9.75E-05	0.202957	0	0.011938	2.088232	0
0	0.000591	0.492027	0	0.241289	3.576158	0	0.012718	10.5932
0	0	0	0	0	0	0	0	0
0	0.847448	49.2613	0	0.229696	2.697877	0	0.012108	0.703847
69.55262	0.002689	0	0.060718	0.00432	0	0.032484	0.010059	0
0	0.001404	0	0	0.038777	0	0	0.030234	0
0	0	0	0	0	0	0	0	0
69.22369	0.000334	0	0.111349	0.000311	0	0.052704	0.001232	0
89.73311	0.010107	0	0.115162	0.012103	0	0.042554	0.045241	0
0	0.014463	0	0	0.068188	0	0	0.311387	0
0	0	0	0	0	0	0	0	0
74.85981	0.000301	0	0.110976	0.000278	0	0.052317	0.001112	0
87.63409	0.003439	0	0.072615	0.005787	0	0.037228	0.013428	0
0	0.000545	0	0	0.050728	0	0	0.011727	0
0	0	0	0	0	0	0	0	0
81.36134	0.000314	0	0.111035	0.000291	0	0.052378	0.001162	0
25.15118	0.0078	0.11709	0.034308	0.011523	0.003047	0.049257	0.039484	0.429379
0	0.005419	0.005098	0	0.077925	0.021306	0	0.116658	0.10976
0	0	0	0	0	0	0	0	0
25.25114	0.004307	0.120245	0.033362	0.009685	0.00312	0.050866	0.020058	0.435647
0	0.00435	0.005098	0	0.093502	0.033954	0	0.093651	0.10976
0	0	0	0	0	0	0	0	0
53.40336	0.187729	0	0.171036	0.039379	0	0.00933	1.248918	0
109.0458	0.005693	0	0.097718	0.008915	0	0.043543	0.023984	0
0	0.000766	0	0	0.069544	0	0	0.016502	0
0	0	0	0	0	0	0	0	0
100.2704	0.000323	0	0.110582	0.000298	0	0.051915	0.0012	0
31.11118	0.01432	0	0.036441	0.025138	0	0.04344	0.063137	0
0	0.00418	0	0	0.152794	0	0	0.09	0
45.50627	0.011863	0.253035	0.046492	0.020215	0.008303	0.033747	0.05695	0.941093
0	0.000671	0.010395	0	0.170687	0.316621	0	0.014451	0.223808
0	0	0	0	0	0	0	0	0
0	0.434381	18.54361	0	0.14884	1.410348	0	0.006206	0.264952
31.52789	0.015957	0.200227	0.036381	0.026713	0.005522	0.031057	0.078449	0.741098
0	0.004069	0.0469	0	0.211776	0.41981	0	0.087607	1.009754
0	0	0	0	0	0	0	0	0
52.21601	0.018134	2.516672	0.059832	0.028687	0.089484	0.06188	0.089386	10.6061
0	0.003116	0.007917	0	0.196397	0.351906	0	0.067084	0.170453

0	0	0	0	0	0	0	0	0
116.8015	0.006553	0	0.124797	0.021412	0	0.085409	0.02174	0
0	0.003096	0	0	0.201811	0	0	0.066667	0
0	0	0	0	0	0	0	0	0
0	2.200091	0	0	0.382757	0	0	0.031608	0

ROG_STRE)	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_HOTS	TOG_RUNL
0.000507	0.145688	1.244811	17.8705	3.047144	0	0.000555	0.145688	1.244811
0	0	0	0	0.014479	12.05955	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.864882	50.27476	0	0	0
0.268977	0.106699	0.260541	2.410994	0.014677	0	0.294496	0.106699	0.260541
0	0	0	0	0.034419	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.039979	0.035147	0.849116	0.001798	0	0.577407	0.039979	0.035147
0.611975	0.285529	0.806364	6.533737	0.066003	0	0.670035	0.285529	0.806364
0	0	0	0	0.354494	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.023159	0.019181	0.456532	0.001623	0	0.577407	0.023159	0.019181
0.332649	0.103792	0.271309	2.445693	0.019593	0	0.364209	0.103792	0.271309
0	0	0	0	0.01335	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.024897	0.021703	0.527035	0.001695	0	0.577407	0.024897	0.021703
0.170357	0.068443	0.372526	5.500122	0.057615	0.626549	0.186519	0.068443	0.372526
0	0	0	0	0.132807	0.124954	0	0	0
0	0	0	0	0	0	0	0	0
0.16211	0.057193	0.298719	4.545242	0.029269	0.635695	0.17749	0.057193	0.298719
0	0	0	0	0.106615	0.124954	0	0	0
0	0	0	0	0	0	0	0	0
1.267945	3.849006	4.218925	9.189921	1.491382	0	1.378279	3.849006	4.218925
0.484968	0.135453	0.379885	3.174604	0.034973	0	0.530978	0.135453	0.379885
0	0	0	0	0.018787	0	0	0	0
0	0	0	0	0	0	0	0	0
0.527373	0.030087	0.025671	0.641876	0.001751	0	0.577407	0.030087	0.025671
0.150077	15.42256	0.341987	8.26915	0.092129	0	0.164316	15.42256	0.341987
0	0	0	0	0.102459	0	0	0	0
0.244727	0.04138	0.316738	5.309558	0.083101	1.373241	0.267946	0.04138	0.316738
0	0	0	0	0.016452	0.254789	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.443317	18.92512	0	0	0
0.18882	0.047374	0.214203	6.09671	0.114472	1.081409	0.206734	0.047374	0.214203
0	0	0	0	0.099733	1.149529	0	0	0
0	0	0	0	0	0	0	0	0
0.337144	0.146509	0.346519	3.573003	0.130431	15.4764	0.369131	0.146509	0.346519
0	0	0	0	0.07637	0.194047	0	0	0



0	0	0	0	0	0	0	0	0	0
0.533372	0.045713	0.102427	1.021472	0.031723	0	0.583976	0.045713	0.102427	
0	0	0	0	0.075895	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	2.245542	0	0	0	0	0

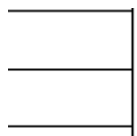
TOG_DIURINH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
17.8705	0.042318	121.162	0	2.975238	0.022393	0 0.00052
0	0.219718	0.043418	145.4125	0	0.014502	0.214941 0
0	0	0	0	0	0	0 0
0	1.039556	6.502342	78.67428	0	0	0 0
2.410994	0.034556	1.089	0	2.61923	0.003167	0 0.000688
0	0.0031	0.356818	0	0	0.002332	0 0
0	0	0	0	0	0	0 0
0.849116	0.019305	0.292594	0	3.241398	0.001404	0 0.000684
6.533737	0.038119	2.83167	0	5.821887	0.00377	0 0.000887
0	0.0031	2.024169	0	0	0.004101	0 0
0	0	0	0	0	0	0 0
0.456532	0.018768	0.264134	0	3.241398	0.001267	0 0.00074
2.445693	0.036501	1.284335	0	3.127232	0.003836	0 0.000866
0	0.0031	0.113374	0	0	0.003051	0 0
0	0	0	0	0	0	0 0
0.527035	0.019572	0.275846	0	3.241398	0.001323	0 0.000804
5.500122	0.044851	1.603433	3.743696	2.822576	0.006391	0.001192 0.000249
0	0.150038	0.443177	0.909745	0	0.004687	0.001281 0
0	0	0	0	0	0	0 0
4.545242	0.044964	1.024336	3.760904	2.720886	0.007144	0.001377 0.00025
0	0.167672	0.300594	0.909745	0	0.005623	0.002042 0
0	0	0	0	0	0	0 0
9.189921	0.008666	17.81362	0	7.32932	0.001949	0 0.000528
3.174604	0.035277	1.723522	0	3.612936	0.004703	0 0.001078
0	0.0031	0.252923	0	0	0.004183	0 0
0	0	0	0	0	0	0 0
0.641876	0.020248	0.284965	0	3.241398	0.001367	0 0.000991
8.26915	0.044835	1.939189	0	3.176455	0.017836	0 0.000308
0	0.111858	0.380073	0	0	0.009189	0 0
5.309558	0.044973	1.34754	10.4271	5.135084	0.016379	0.005587 0.00045
0	0.213549	0.05244	6.467688	0	0.010259	0.01903 0
0	0	0	0	0	0	0 0
0	1.06	1.072712	54.0374	0	0	0 0
6.09671	0.044881	1.996013	5.743476	3.865889	0.016747	0.00377 0.000312
0	0.204062	0.254912	13.87871	0	0.012729	0.025232 0
0	0	0	0	0	0	0 0
3.573003	0.045	1.801215	82.02583	6.771819	0.008798	0.025641 0.000516
0	0.161354	0.188824	4.837773	0	0.011804	0.021151 0

0	0	0	0	0	0	0	0
1.021472	0.045	0.375463	0	8.139949	0.02241	0	0.001155
0	0.22	0.076071	0	0	0.012137	0	0
0	0	0	0	0	0	0	0
0	0.97	28.53733	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,435	888,775

2024 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.55	61.78	1.89	0.61	1.43	1.37	64,685.57	0.03	10.19	67,723.19
0.49	1.69	22.06	0.08	0.04	0.03	8,009.73	0.11	0.16	8,059.06
<i>Subtotal</i>									
1.04	63.47	23.95	0.69	1.46	1.40	72,695.29	0.13	10.35	75,782.26

PM10	PM2.5
Paved Road - PM only	
72.15	17.71
8.36	2.05
<i>Subtotal</i>	
80.51	19.76

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.61	0.48	5.84	0.00	0.00	0.00	124.49	0.13	0.06	144.92
<i>Subtotal</i>									
0.61	3.02	5.84	0.00	0.00	0.00	124.49	0.13	0.06	144.92

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.65	17.65	13.82	0.03	0.03	0.03	3,017.39	0.03	0.48	3,159.80
<i>Subtotal</i>									
0.65	17.65	13.82	0.03	0.03	0.03	3,017.39	0.03	0.48	3,159.80
<b>TOTAL</b>									
2.30	84.14	43.60	0.72	82.01	21.20	75,837.17	0.29	10.88	79,086.98

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	487	19,480	177,755	7,110,200
Employees/Customers	Composite	16.6	762	12,649	278,130	4,616,958

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	487	177,755
Employees/Customers	Composite	762	278,130

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,435	888,775





Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS -	ROG_DIURN -	STEX HOTSOAK	
															Calculated	Calculated	Runloss ROG	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	RESTLOSS -	
																	DIURN_Combined -	
																		Calculated
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.012718185	9.1804949	0	0	0	0	0				
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.014451182	0.212357119	0	0	0	0	0				
				<b>HHDT and MHDT Composite</b>				<b>0.0128</b>	<b>8.6742</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>	
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.009285777	0	0.320609202	0.09564721	0.249720655	0	1.629510669				
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.03023386	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.001138406	0	0.724457172	0.035331043	0.032275616	0	0.500204116				
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31,233.77	1,048,128.25	133,722.88	0.041543038	0	0.732552183	0.250683446	0.773960347	0	4.261393561				
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.311387166	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001027678	0	0.724457172	0.020570722	0.017794542	0	0.292360499				
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137,725.50	5,643,211.72	641,066.80	0.012389889	0	0.396918342	0.093188827	0.261017829	0	1.69885173				
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.011726532	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0	0	0	0				
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001073246	0	0.724457172	0.021924656	0.019956947	0	0.325300206				
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18,161.87	104,842.30	36,323.75	1.263715153	0	1.431449323	3.61561626	4.171478753	0	5.200283702				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0176</b>	<b>0.0000</b>	<b>0.3649</b>	<b>0.1156</b>	<b>0.2849</b>	<b>0.0000</b>	<b>1.7141</b>	<b>0.409732</b>	<b>0.409732</b>	<b>1.5849</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014478685	10.45129461	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.016451571	0.241752415	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0146</b>	<b>9.8749</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>-</b>	<b>-</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolir	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.013549783	0	0.35102672	0.09564721	0.249720655	0	1.629510669	0	0	0	0
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.03441924	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.00166116	0	0.793189415	0.035331043	0.032275616	0	0.500204116	0	0	0	0
San Bernardino (MD)	2024	LDT1	Gasolir	Aggregate	31,233.77	1,048,128.25	133,722.88	0.060609793	0	0.80205125	0.250683446	0.773960347	0	4.261393561	0	0	0	0
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.354493586	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001499585	0	0.793189415	0.020570722	0.017794542	0	0.292360499	0	0	0	0
San Bernardino (MD)	2024	LDT2	Gasolir	Aggregate	137,725.50	5,643,211.72	641,066.80	0.018078659	0	0.434575544	0.093188827	0.261017829	0	1.69885173	0	0	0	0
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.013349877	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0	0	0	0	0	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001566078	0	0.793189415	0.021924656	0.019956947	0	0.325300206	0	0	0	0
San Bernardino (MD)	2024	MCY	Gasolir	Aggregate	18,161.87	104,842.30	36,323.75	1.507564276	0	1.555992756	3.61561626	4.171478753	0	5.200283702	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0240</b>	<b>0.0000</b>	<b>0.3994</b>	<b>0.1156</b>	<b>0.2849</b>	<b>0.0000</b>	<b>1.7141</b>	<b>0.409732</b>	<b>0.409732</b>	<b>1.6195</b>	

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Winter NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1.475527027	126.6820882	2.42738497
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.82078784	12.47757341	1.385943889
							<b>HHDT and MHDT Composite</b>	<b>1.4386</b>	<b>120.2347</b>	<b>2.3686</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.042620373	0	0.252575833
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.257796436	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.002723445	0	0.458502226
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.19535692	0	0.491360508
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	1.714406878	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.002458545	0	0.458502226
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.076142518	0	0.349566134
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.053267871	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.002567559	0	0.458502226
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.654074024	0	0.163047837
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0605</b>	<b>0.0000</b>	<b>0.2865</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.04341779	150.0371202	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.052439828	7.04424963	0
							<b>HHDT and MHDT Composite</b>	<b>0.0439</b>	<b>141.9646</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.657791987	0	3.085341736
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.35681795	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.17950143	0	5.276521162
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	1.735291498	0	6.943929166
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	2.024169148	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.162041993	0	5.276521162
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.776523948	0	3.700528024
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.113374439	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.169227074	0	5.276521162
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	16.71679091	0	7.557518405
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.7910</b>	<b>0.0000</b>	<b>3.4775</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX	SO2_IDLEX	SO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.014502414	0.221580389	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.010258958	0.01932122	0
							<b>HHDT and MHDT Composite</b>	<b>0.0143</b>	<b>0.2102</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.002762676	0	0.000696625
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.002332183	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.001223753	0	0.000722815
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.003325204	0	0.000908708
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.004101035	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.001104723	0	0.000778534
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.003427595	0	0.000877479
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.003050931	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.001153707	0	0.000842808
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001932213	0	0.000536895
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0028</b>	<b>0.0000</b>	<b>0.0007</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.0344964	0.051706129	0	0.035930262	0.070364256	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.012533257	0.031999688	0	0.012000003	0.041711441	
				<b>HHDT and MHDT Composite</b>				<b>0.0333</b>	<b>0.0506</b>	<b>0.0000</b>	<b>0.0346</b>	<b>0.0687</b>	<b>0.136582</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.001261576	0	0.002108692	0.008000002	0.005480212	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.020323255	0	0	0.008000002	0.005582816	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0.008000002	0.004367245	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000636178	0	0.002176869	0.008000002	0.003517448	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.00225597	0	0.003742015	0.008000002	0.006739005	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.256798693	0	0	0.008000002	0.007623684	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0.008000002	0.004374654	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000389778	0	0.001488873	0.008000002	0.003590741	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.001298034	0	0.002148377	0.008000002	0.006401396	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.005336553	0	0	0.008000002	0.006269843	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0.008000002	0.004358152	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000483571	0	0.00176484	0.008000002	0.003559892	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001925633	0	0.00334752	0.004000001	0.012000003	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0013</b>	<b>0.0000</b>	<b>0.0022</b>	<b>0.0080</b>	<b>0.0057</b>	<b>0.015032</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.033004101	0.049469345	0	0.008982565	0.02462749	
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.011991074	0.030615395	0	0.003000001	0.014599004	
				<b>HHDT and MHDT Composite</b>				<b>0.0318</b>	<b>0.0484</b>	<b>0.0000</b>	<b>0.0086</b>	<b>0.0241</b>	<b>0.064524</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.001159973	0	0.001938864	0.002000001	0.001918074	
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.01944408	0	0	0.002000001	0.001953986	
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0	0.002000001	0.001528536	
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000584942	0	0.002001551	0.002000001	0.001231107	
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.002074351	0	0.003440799	0.002000001	0.002358652	
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.245689696	0	0	0.002000001	0.002668289	
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0	0.002000001	0.001531129	
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000358387	0	0.001368963	0.002000001	0.001256759	
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.001193498	0	0.001975362	0.002000001	0.002240489	
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.005105696	0	0	0.002000001	0.002194445	
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0	0.002000001	0.001525353	
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000444625	0	0.001622705	0.002000001	0.001245962	
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.001803546	0	0.003151773	0.001	0.004200001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0012</b>	<b>0.0000</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.0020</b>	<b>0.005208</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	1531.502577	23399.61797	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	1083.379706	2040.384386	0
<b>HHDT and MHDT Composite</b>								<b>1506.2041</b>	<b>22193.7966</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	279.452823	0	70.46565477
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	246.1275281	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	123.7861992	0	73.11488608
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	336.3542636	0	91.91851516
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	432.8036569	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	111.7459761	0	78.75100801
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	346.711349	0	88.75964235
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	321.9807126	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	116.7008886	0	85.2525391
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	195.4490508	0	54.30852632
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>287.2235</b>	<b>0.0000</b>	<b>74.1072</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day



**Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Winter N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.241288855	3.686619341	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.170686914	0.321463391	0
<b>HHDT and MHDT Composite</b>								<b>0.2373</b>	<b>3.4966</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.004725115	0	0.033254257
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.038777492	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000337664	0	0.056775132
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.013198456	0	0.043527917
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.068188392	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000302249	0	0.056358669
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.006324586	0	0.03810046
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.050728192	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.00031605	0	0.05642417
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.043346887	0	0.009588112
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0341</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
San Bernardino (MD)	2024	HHDT	Diesel	Aggregate	12,941.96	2,664,602.46	271,358.05	0.000590727	0.42641021	0
San Bernardino (MD)	2024	MHDT	Diesel	Aggregate	2,714.45	159,428.81	36,098.94	0.00067122	0.009863438	0
<b>HHDT and MHDT Composite</b>								<b>0.0006</b>	<b>0.4029</b>	<b>0.0000</b>
San Bernardino (MD)	2024	LDA	Gasolin	Aggregate	309,548.79	12,857,053.58	1,432,614.99	0.002449397	0	0.07125307
San Bernardino (MD)	2024	LDA	Diesel	Aggregate	1,034.98	34,051.72	4,387.46	0.001404305	0	0
San Bernardino (MD)	2024	LDA	Electric	Aggregate	13,623.83	668,545.70	68,261.16	0	0	0
San Bernardino (MD)	2024	LDA	Plug-in	Aggregate	8,183.17	405,777.57	40,220.28	0.000296356	0	0.146708161
San Bernardino (MD)	2024	LDT1	Gasolin	Aggregate	31,233.77	1,048,128.25	133,722.88	0.009201604	0	0.136160824
San Bernardino (MD)	2024	LDT1	Diesel	Aggregate	16.00	215.24	45.44	0.014463339	0	0
San Bernardino (MD)	2024	LDT1	Electric	Aggregate	48.64	2,207.05	236.53	0	0	0
San Bernardino (MD)	2024	LDT1	Plug-in	Aggregate	34.41	1,839.25	169.13	0.000266486	0	0.146211398
San Bernardino (MD)	2024	LDT2	Gasolin	Aggregate	137,725.50	5,643,211.72	641,066.80	0.003132748	0	0.085308015
San Bernardino (MD)	2024	LDT2	Diesel	Aggregate	435.29	19,152.63	2,086.78	0.000544675	0	0
San Bernardino (MD)	2024	LDT2	Electric	Aggregate	786.42	29,403.80	4,021.29	0	0	0
San Bernardino (MD)	2024	LDT2	Plug-in	Aggregate	1,052.19	54,079.06	5,171.51	0.000278464	0	0.146289965
San Bernardino (MD)	2024	MCY	Gasolin	Aggregate	18,161.87	104,842.30	36,323.75	0.188580888	0	0.191833581
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0038</b>	<b>0.0000</b>	<b>0.0796</b>

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2024

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/veh

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.0) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (MD)

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT
San Bernardino	2023	HHDT	Aggregate	Aggregate	Gasoline	3.706021	198.5498	198.5498
San Bernardino	2023	HHDT	Aggregate	Aggregate	Diesel	12541.22	2609489	2609489
San Bernardino	2023	HHDT	Aggregate	Aggregate	Electricity	11.53584	1130.876	0
San Bernardino	2023	HHDT	Aggregate	Aggregate	Natural Gas	33.1908	2419.664	2419.664
San Bernardino	2023	LDA	Aggregate	Aggregate	Gasoline	312180.3	12850026	12850026
San Bernardino	2023	LDA	Aggregate	Aggregate	Diesel	1111.78	36864.07	36864.07
San Bernardino	2023	LDA	Aggregate	Aggregate	Electricity	11324.99	536054.6	0
San Bernardino	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	7422.455	367736.6	186538.3
San Bernardino	2023	LDT1	Aggregate	Aggregate	Gasoline	32278.55	1068871	1068871
San Bernardino	2023	LDT1	Aggregate	Aggregate	Diesel	17.77199	243.407	243.407
San Bernardino	2023	LDT1	Aggregate	Aggregate	Electricity	37.46099	1553.819	0
San Bernardino	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	21.98848	1174.83	541.535
San Bernardino	2023	LDT2	Aggregate	Aggregate	Gasoline	135449.8	5476171	5476171
San Bernardino	2023	LDT2	Aggregate	Aggregate	Diesel	415.1711	18119.07	18119.07
San Bernardino	2023	LDT2	Aggregate	Aggregate	Electricity	534.2571	20036.79	0
San Bernardino	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	841.1396	43428.44	20816.2
San Bernardino	2023	LHDT1	Aggregate	Aggregate	Gasoline	13373.18	482494.3	482494.3
San Bernardino	2023	LHDT1	Aggregate	Aggregate	Diesel	11266.77	414957.4	414957.4
San Bernardino	2023	LHDT2	Aggregate	Aggregate	Gasoline	1757.472	63304.9	63304.9
San Bernardino	2023	LHDT2	Aggregate	Aggregate	Diesel	4751.018	181922.2	181922.2
San Bernardino	2023	MCY	Aggregate	Aggregate	Gasoline	18296.67	105592.6	105592.6
San Bernardino	2023	MDV	Aggregate	Aggregate	Gasoline	106014.1	4096216	4096216
San Bernardino	2023	MDV	Aggregate	Aggregate	Diesel	1733.718	70442.83	70442.83
San Bernardino	2023	MDV	Aggregate	Aggregate	Electricity	582.2451	21819.89	0
San Bernardino	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	554.3277	26581.08	13284.45
San Bernardino	2023	MH	Aggregate	Aggregate	Gasoline	3314.159	28525.3	28525.3
San Bernardino	2023	MH	Aggregate	Aggregate	Diesel	1297.879	11212.43	11212.43
San Bernardino	2023	MHDT	Aggregate	Aggregate	Gasoline	920.2847	63606.39	63606.39
San Bernardino	2023	MHDT	Aggregate	Aggregate	Diesel	2658.088	156869.9	156869.9
San Bernardino	2023	MHDT	Aggregate	Aggregate	Electricity	1.582674	49.98045	0
San Bernardino	2023	MHDT	Aggregate	Aggregate	Natural Gas	7.663496	360.2936	360.2936
San Bernardino	2023	OBUS	Aggregate	Aggregate	Gasoline	281.3228	17086.93	17086.93
San Bernardino	2023	OBUS	Aggregate	Aggregate	Diesel	71.62191	4963.503	4963.503
San Bernardino	2023	SBUS	Aggregate	Aggregate	Gasoline	93.76778	5830.784	5830.784
San Bernardino	2023	SBUS	Aggregate	Aggregate	Diesel	620.8981	14679.02	14679.02
San Bernardino	2023	SBUS	Aggregate	Aggregate	Electricity	0.270902	3.144981	0
San Bernardino	2023	UBUS	Aggregate	Aggregate	Gasoline	55.06245	5254.365	5254.365
San Bernardino	2023	UBUS	Aggregate	Aggregate	Diesel	2.558566	252.3864	252.3864

San Bernar	2023 UBUS	Aggregate	Aggregate	Electricity	0.196662	20.74125	0
San Bernar	2023 UBUS	Aggregate	Aggregate	Natural Ga:	103.6568	13693.46	13693.46

RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIUR

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR
0	74.15006	0	8.28581	0	0.525952	0.004554	0	0.002181
0	263316.6	0	1.532536	127.1948	2.39996	0.033374	0.050074	0
1130.876	250.0654	2035.71	0	0	0	0	0	0
0	378.5864	0	0.367986	17.57389	0	0.0011	0.03907	0
0	1446038	0	0.047472	0	0.264932	0.001204	0	0.002007
0	4735.609	0	0.285968	0	0	0.021968	0	0
536054.6	56930.3	206961.3	0	0	0	0	0	0
181198.3	36481.37	54727.3	0.002793	0	0.458502	0.000632	0	0.002102
0	138205.7	0	0.216874	0	0.519804	0.002233	0	0.003673
0	51.45742	0	1.721444	0	0	0.246881	0	0
1553.819	179.6315	599.9023	0	0	0	0	0	0
633.2954	108.0734	191.2741	0.002538	0	0.458502	0.000378	0	0.001396
0	630136.9	0	0.086393	0	0.377859	0.00124	0	0.002036
0	1989.385	0	0.064454	0	0	0.006593	0	0
20036.79	2743.818	7735.856	0	0	0	0	0	0
22612.24	4134.201	6829.569	0.002639	0	0.458502	0.00048	0	0.001705
0	199240.5	0	0.257206	0.038429	0.658296	0.001298	0	0.000416
0	141721.8	0	2.507187	2.250165	0	0.031632	0.026736	0
0	26183.72	0	0.195577	0.038802	0.677894	0.001056	0	0.000287
0	59761.83	0	1.753912	2.189513	0	0.026544	0.026243	0
0	36593.33	0	0.669209	0	0.168156	0.001804	0	0.003275
0	481739.6	0	0.156683	0	0.532953	0.001342	0	0.002262
0	8068.769	0	0.175262	0	0	0.009663	0	0
21819.89	2989.453	8424.279	0	0	0	0	0	0
13296.63	2724.521	4015.978	0.002751	0	0.458502	0.000651	0	0.002208
0	331.5485	0	0.498798	0	0.403122	0.001295	0	0.000404
0	129.7879	0	4.866308	0	0	0.183217	0	0
0	18413.06	0	0.51271	0.084546	0.442106	0.00094	0	0.000529
0	35240.85	0	0.896769	12.88883	1.374455	0.013003	0.037006	0
49.98045	22.90489	62.74788	0	0	0	0	0	0
0	39.31373	0	0.049479	7.75101	0	0.000799	0.02704	0
0	5628.707	0	0.683688	0.064695	0.404284	0.000776	0	0.000318
0	846.0137	0	2.327394	13.99709	1.580847	0.064464	0.042122	0
0	375.0711	0	0.642906	0.92344	0.695934	0.001298	0	0.000573
0	8990.604	0	3.482866	20.77618	0.551372	0.020708	0.022384	0
3.144981	3.922662	4.27829	0	0	0	0	0	0
0	220.2498	0	0.248456	0	0.95013	0.001936	0	0.000954
0	10.23427	0	0.456415	0	0	0.004387	0	0

20.74125	0.786648	43.95159	0	0	0	0	0	0
0	414.6271	0	0.400546	0	0	0.000286	0	0

IN

PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM1	PM10_PMI	CO2_RUNE	CO2_IDLEX
0.005	0.028905	0.004953	0	0.002372	0.02	0.082585	2400.326	0
0.008982	0.024623	0.034883	0.052339	0	0.03593	0.070351	1555.064	23938.94
0.008992	0.012302	0	0	0	0.035968	0.035148	0	0
0.009	0.026798	0.001196	0.042492	0	0.036	0.076567	1141.054	13210.57
0.002	0.001923	0.001309	0	0.002183	0.008	0.005494	283.9547	0
0.002	0.001953	0.022961	0	0	0.008	0.005581	248.1214	0
0.002	0.001528	0	0	0	0.008	0.004365	0	0
0.002	0.001224	0.000687	0	0.002287	0.008	0.003496	126.919	0
0.002	0.002369	0.002428	0	0.003994	0.008	0.006768	341.3565	0
0.002	0.002678	0.258044	0	0	0.008	0.007651	433.241	0
0.002	0.001533	0	0	0	0.008	0.004381	0	0
0.002	0.001248	0.000411	0	0.001519	0.008	0.003565	115.3312	0
0.002	0.002248	0.001348	0	0.002214	0.008	0.006424	353.9486	0
0.002	0.002192	0.006891	0	0	0.008	0.006264	327.2396	0
0.002	0.001524	0	0	0	0.008	0.004355	0	0
0.002	0.001238	0.000522	0	0.001855	0.008	0.003537	119.9286	0
0.002	0.0273	0.001411	0	0.000453	0.008	0.078	664.1486	121.4211
0.003	0.0273	0.033063	0.027945	0	0.012	0.078	495.8677	136.1875
0.002	0.03185	0.001149	0	0.000312	0.008	0.091	738.5387	140.1927
0.003	0.03185	0.027745	0.02743	0	0.012	0.091	596.2183	216.9759
0.001	0.0042	0.001925	0	0.003474	0.004	0.012	196.0754	0
0.002	0.002345	0.001459	0	0.00246	0.008	0.006699	439.3059	0
0.002	0.002324	0.010099	0	0	0.008	0.006641	445.782	0
0.002	0.001524	0	0	0	0.008	0.004354	0	0
0.002	0.001228	0.000708	0	0.002402	0.008	0.003508	125.0451	0
0.003	0.014602	0.001408	0	0.000439	0.012	0.041719	1805.222	0
0.004	0.014597	0.191501	0	0	0.016	0.041706	969.9511	0
0.003	0.014602	0.001023	0	0.000575	0.012	0.041719	1678.234	514.2031
0.003	0.014599	0.013591	0.03868	0	0.012	0.041711	1089.472	2055.843
0.003	0.007299	0	0	0	0.012	0.020854	0	0
0.003	0.014597	0.000869	0.029408	0	0.012	0.041706	733.8838	6935.425
0.003	0.014594	0.000844	0	0.000346	0.012	0.041696	1716.686	383.2442
0.003	0.019042	0.067379	0.044027	0	0.012	0.054404	1350.621	2717.56
0.002	0.016396	0.001411	0	0.000623	0.008	0.046845	894.8428	2604.874
0.003	0.016396	0.021645	0.023396	0	0.012	0.046845	1250.107	2158.977
0.003	0.008198	0	0	0	0.012	0.023423	0	0
0.002969	0.038292	0.002105	0	0.001038	0.011875	0.109404	2268.233	0
0.005633	0.0385	0.004586	0	0	0.022532	0.11	1279.376	0



0.00616	0.01925	0	0	0	0.02464	0.055	0	0
0.006395	0.038459	0.000299	0	0	0.025578	0.109884	1982.103	0

CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX
52.56296	0.380026	0	8.66E-05	0.215935	0	0.011894	2.439552	0
0	0.000611	0.42797	0	0.245001	3.771591	0	0.013163	9.214074
0	0	0	0	0	0	0	0	0
0	0.848956	50.04434	0	0.232611	2.693061	0	0.01213	0.715035
71.80892	0.002715	0	0.075237	0.005027	0	0.034025	0.010511	0
0	0.001578	0	0	0.039092	0	0	0.033967	0
0	0	0	0	0	0	0	0	0
73.86381	0.000305	0	0.147164	0.000349	0	0.057155	0.001168	0
93.9008	0.01022	0	0.144775	0.014389	0	0.044827	0.046425	0
0	0.014525	0	0	0.068257	0	0	0.312705	0
0	0	0	0	0	0	0	0	0
79.77175	0.000276	0	0.146806	0.000315	0	0.056852	0.001061	0
90.9037	0.003461	0	0.09075	0.006878	0	0.039667	0.013897	0
0	0.000644	0	0	0.051557	0	0	0.01386	0
0	0	0	0	0	0	0	0	0
86.13279	0.000288	0	0.146898	0.000328	0	0.05693	0.001104	0
25.42069	0.00836	0.118585	0.037164	0.01394	0.003013	0.050837	0.042242	0.439785
0	0.00575	0.005098	0	0.078124	0.021456	0	0.123793	0.10976
25.68283	0.004732	0.121623	0.03595	0.011695	0.003086	0.052484	0.022191	0.444774
0	0.004575	0.005098	0	0.093934	0.034185	0	0.09849	0.10976
55.18078	0.193395	0	0.195617	0.043993	0	0.009851	1.305786	0
112.7788	0.005848	0	0.123374	0.010749	0	0.046574	0.025285	0
0	0.000802	0	0	0.070233	0	0	0.017266	0
0	0	0	0	0	0	0	0	0
105.8352	0.000299	0	0.146271	0.000339	0	0.056408	0.001151	0
31.76192	0.015441	0	0.03912	0.02891	0	0.042237	0.068773	0
0	0.004279	0	0	0.152816	0	0	0.09212	0
46.72159	0.014269	0.285725	0.049619	0.025324	0.007214	0.034112	0.070037	1.081986
0	0.000742	0.010594	0	0.171647	0.323899	0	0.015985	0.228093
0	0	0	0	0	0	0	0	0
0	0.43215	18.67798	0	0.149607	1.413832	0	0.006175	0.266871
32.32764	0.016787	0.19913	0.038864	0.031139	0.005345	0.031389	0.08242	0.740801
0	0.003918	0.041506	0	0.212791	0.428153	0	0.084355	0.893617
58.84423	0.01915	2.499689	0.076414	0.032589	0.086144	0.063804	0.094677	10.59636
0	0.003205	0.007674	0	0.196955	0.340148	0	0.068997	0.16522
0	0	0	0	0	0	0	0	0
119.322	0.006375	0	0.131185	0.021958	0	0.085131	0.021169	0
0	0.003084	0	0	0.201566	0	0	0.066398	0

0	0	0	0	0	0	0	0	
0	2.249252	0	0	0.404065	0	0	0.032306	0

ROG_STRE)	ROG_HOTS	ROG_RUNL	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_HOTS	TOG_RUNL
0.000448	0.138378	1.301061	10.79907	3.559789	0	0.00049	0.138378	1.301061
0	0	0	0	0.014985	10.48952	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.866422	51.07392	0	0	0
0.343203	0.099214	0.25765	1.677082	0.015333	0	0.375763	0.099214	0.25765
0	0	0	0	0.038669	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.035103	0.031246	0.500999	0.001704	0	0.793189	0.035103	0.031246
0.786062	0.263385	0.823004	4.460765	0.067722	0	0.860636	0.263385	0.823004
0	0	0	0	0.355994	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.020927	0.01849	0.298975	0.001549	0	0.793189	0.020927	0.01849
0.427667	0.097733	0.27075	1.753312	0.020276	0	0.468242	0.097733	0.27075
0	0	0	0	0.015779	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.022224	0.020621	0.334429	0.001611	0	0.793189	0.022224	0.020621
0.186179	0.063608	0.368166	3.899545	0.06164	0.641733	0.203842	0.063608	0.368166
0	0	0	0	0.140931	0.124954	0	0	0
0.176363	0.052886	0.291087	3.230901	0.032381	0.649013	0.193095	0.052886	0.291087
0	0	0	0	0.112125	0.124954	0	0	0
1.46385	3.614404	4.153156	5.178637	1.552732	0	1.591079	3.614404	4.153156
0.629496	0.12652	0.37239	2.300567	0.036833	0	0.689214	0.12652	0.37239
0	0	0	0	0.019656	0	0	0	0
0	0	0	0	0	0	0	0	0
0.724457	0.025974	0.024615	0.400095	0.001679	0	0.793189	0.025974	0.024615
0.162718	13.97299	0.332668	5.473516	0.100354	0	0.178156	13.97299	0.332668
0	0	0	0	0.104872	0	0	0	0
0.265951	0.040038	0.331388	3.53769	0.102198	1.578831	0.291183	0.040038	0.331388
0	0	0	0	0.018198	0.259666	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0.441041	19.06225	0	0	0
0.202538	0.042053	0.19907	3.766966	0.120268	1.080976	0.221753	0.042053	0.19907
0	0	0	0	0.096032	1.017315	0	0	0
0.433251	0.131963	0.336689	2.206458	0.138153	15.46218	0.474356	0.131963	0.336689
0	0	0	0	0.078548	0.18809	0	0	0
0	0	0	0	0	0	0	0	0
0.561675	0.038308	0.098193	0.542675	0.030889	0	0.614964	0.038308	0.098193
0	0	0	0	0.075589	0	0	0	0

0	0	0	0	0	0	0	0	0
0	0	0	0	2.295711	0	0	0	0

TOG_DIURINH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
10.79907	0.039142	165.6541	0	2.630345	0.02373	0 0.00052
0	0.219685	0.04772	150.4726	0	0.014726	0.226687 0
0	0	0	0	0	0	0 0
0	1.040621	6.958745	74.70438	0	0	0 0
1.677082	0.033713	0.702107	0	3.270134	0.002807	0 0.00071
0	0.0031	0.375224	0	0	0.002351	0 0
0	0	0	0	0	0	0 0
0.500999	0.019522	0.184088	0	5.276521	0.001255	0 0.00073
4.460765	0.038068	1.900299	0	7.450529	0.003375	0 0.000928
0	0.0031	2.031822	0	0	0.004105	0 0
0	0	0	0	0	0	0 0
0.298975	0.01936	0.167281	0	5.276521	0.00114	0 0.000789
1.753312	0.035691	0.837878	0	3.948761	0.003499	0 0.000899
0	0.0031	0.122176	0	0	0.003101	0 0
0	0	0	0	0	0	0 0
0.334429	0.020094	0.173949	0	5.276521	0.001186	0 0.000852
3.899545	0.044822	1.636724	3.740503	2.951189	0.006566	0.0012 0.000251
0	0.144089	0.478756	0.909745	0	0.004699	0.00129 0
3.230901	0.044958	1.047533	3.757979	2.866613	0.007301	0.001386 0.000254
0	0.163343	0.321356	0.909745	0	0.005649	0.002056 0
5.178637	0.008618	17.16772	0	7.599926	0.001938	0 0.000546
2.300567	0.034633	1.170071	0	4.606045	0.004343	0 0.001115
0	0.0031	0.260294	0	0	0.004224	0 0
0	0	0	0	0	0	0 0
0.400095	0.02099	0.18137	0	5.276521	0.001236	0 0.001046
5.473516	0.04477	2.198026	0	3.559821	0.017846	0 0.000314
0	0.1078	0.387847	0	0	0.009191	0 0
3.53769	0.044925	1.699574	19.77041	5.656834	0.016591	0.005083 0.000462
0	0.212458	0.056358	7.11313	0	0.010317	0.019468 0
0	0	0	0	0	0	0 0
0	1.06	1.092415	53.45212	0	0	0 0
3.766966	0.044876	2.060663	5.741688	4.261334	0.016971	0.003789 0.00032
0	0.204757	0.245559	14.58114	0	0.01279	0.025734 0
2.206458	0.045	1.895875	81.96665	10.62665	0.008846	0.025752 0.000582
0	0.15842	0.191822	5.298591	0	0.011838	0.020444 0
0	0	0	0	0	0	0 0
0.542675	0.045	0.347149	0	9.668563	0.022424	0 0.00118
0	0.22	0.075658	0	0	0.012123	0 0

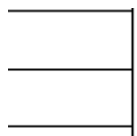
0	0	0	0	0	0	0	0	0
0	0.97	28.97929	0	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip





1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity		Facility Operation (hrs/day)	Vehicle Operation				Electric Energy Consumption per Unit		Units	Total Energy Consumption	
			(hp)	(kW)		Load Factor <sup>4</sup>	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)		(kWhr/day)	(kWhr/yr)
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity	0.7	8	0.2	7	52	582.4	1.12	407.68	47	0.00	0.00	
		Lift Motor Capacity	0.8	8	0.05	7	52	145.6	0.32	116.48		0.00	0.00	
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity	11	8	0.2	7	52	582.4	17.60	6,406.40	47	827.20	301,100.80	
		Lift Motor Capacity	10	8	0.05	7	52	145.6	4.00	1,456.00		188.00	68,432.00	
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	24	8	0.2	7	52	582.4	28.80	10,483.20	47	0.00	0.00	
		Lift Motor Capacity	27	8	0.05	7	52	145.6	8.00	2,912.00		0.00	0.00	
<b>Total</b>												<b>1,015.20</b>	<b>369,532.80</b>	

<sup>1</sup> Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

[https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw\\_sn8BRBrEiwAnUGJDsnUx19ivgquuJTz2DOx51UqkSAIq9VO2ZxpkzJZWyl-FmMiqFRAeRoCOqEQAvD\\_BwE](https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19ivgquuJTz2DOx51UqkSAIq9VO2ZxpkzJZWyl-FmMiqFRAeRoCOqEQAvD_BwE)

<sup>2</sup> Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

<sup>3</sup> Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/ct-i-2epc7000-2ep11000-english.pdf>

<sup>4</sup> Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor  
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>
					(lb/MWhr)				(Metric TPY)			
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
		Lift Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity	827.2	301,100.80	531.44	0.029	0.00617	534	72.58	0.00	0.00	72.93
		Lift Motor Capacity	188	68,432.00	531.44	0.029	0.00617	534	16.50	0.00	0.00	16.58
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0.00	0.00	0.00	0.00
		Lift Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0.00	0.00	0.00	0.00
<b>Total</b>								<b>89.08</b>	<b>0.00</b>	<b>0.00</b>	<b>89.51</b>	

<sup>1</sup> Based on SCE 2019 Corporate Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>

<sup>2</sup> Based on CalEEMod default values for the Utility

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity		Facility Operation (hrs/day)	Vehicle Operation				Electric Energy Consumption per Unit		Total Energy Consumption		
			(hp)	(kW)		Load Factor <sup>3</sup>	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)	Units	(kWhr/day)	(kWhr/yr)
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity		0.7	8	0.2	7	52	582.4	1.12	407.68		0.00	0.00
		Lift Motor Capacity		0.8	8	0.05	7	52	145.6	0.32	116.48		0.00	0.00
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	47	827.20	301,100.80
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		188.00	68,432.00
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	24	18	8	0.2	7	52	582.4	28.80	10,483.20	18	518.40	188,697.60
		Lift Motor Capacity	27	20	8	0.05	7	52	145.6	8.00	2,912.00		144.00	52,416.00
<b>Total</b>												<b>1,677.60</b>	<b>610,646.40</b>	

<sup>1</sup> Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

[https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw\\_sn8BRBrEiwAnUGJdsnUx19lvquuJTz2DOx51UqkSAIlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD\\_BwE](https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJdsnUx19lvquuJTz2DOx51UqkSAIlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD_BwE)

<sup>2</sup> Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

<sup>3</sup> Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2ep7000-2ep11000-english.pdf>

<sup>4</sup> Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor  
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>
					(lb/MWhr)				(Metric TPY)			
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
		Lift Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity	827.2	301,100.80	531.44	0.029	0.00617	534	72.58	0.00	0.00	72.93
		Lift Motor Capacity	188	68,432.00	531.44	0.029	0.00617	534	16.50	0.00	0.00	16.58
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	518.4	188,697.60	531.44	0.029	0.00617	534	45.49	0.00	0.00	45.71
		Lift Motor Capacity	144	52,416.00	531.44	0.029	0.00617	534	12.64	0.00	0.00	12.70
<b>Total</b>								<b>147.20</b>	<b>0.01</b>	<b>0.00</b>	<b>147.91</b>	

<sup>1</sup> Based on SCE 2019 Corporate Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>

<sup>2</sup> Based on CalEEMod default values for the Utility

### Quantification of Commercial EV Charging Station Benefit

SCE Electricity Emission Factor <sup>1</sup>	0.24	MT CO <sub>2</sub> e/MWh
Fuel Economy of Electric Vehicle <sup>2</sup>	0.4	kWh/mile
Gasoline/Diesel CO <sub>2</sub> e Emission while Running <sup>3</sup>	316	g/mile
Annual VMT per Parking Spot <sup>4</sup>	52,000	miles/charging station/year
Number of EV Parking Spots Provided by Project <sup>5</sup>	43	
Annual VMT All Stations (Based on Charge)	2,236,000	miles/year
GHG Emissions of Gasoline/Diesel Vehicle <sup>6</sup>	707	MT CO <sub>2</sub> e/year
GHG Emissions of Electric Vehicle <sup>7</sup>	217	MT CO <sub>2</sub> e/year
GHG Emissions Reduction <sup>8</sup>	491	MT CO <sub>2</sub> e/year
GHG Reduction per Parking Space with Charging per Year	11	MT CO <sub>2</sub> e/year

Notes:

1. Based on 2019 Sustainability Report for SCE.
2. US Department of Energy. 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. [https://www.afdc.energy.gov/fuels/electricity\\_benefits.html](https://www.afdc.energy.gov/fuels/electricity_benefits.html). Accessed October 2018.
3. California Air Resources Board. 2021. EMFAC 2021. Running exhaust emission rate for CO<sub>2</sub> for light duty gasoline- and diesel-powered vehicles for South Coast Air Basin, aggregated for all models and speeds, averaged over all seasons for 2024. <https://www.arb.ca.gov/emfac/>. Accessed March 2021.
4. Annual VMT reduction estimated based on an estimate of 8 hours of charge time for a Level 2 charging station that charges at a rate of 25 miles of driving range per hour.
5. Number of charging stations based on project commitment. This assumes 43 parking spaces would be serviced by a charging station.
6. GHG emissions calculated using annual VMT reduction at all stations.
7. GHG emissions calculated using annual VMT reduction at all stations, fuel economy of electric vehicles, along with SCE electricity intensity emission factor.
8. GHG emission reduction is a difference of GHG emissions of gasoline vehicles and GHG emissions of electric vehicles.