

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**GSWC Roseton Plant New Tank and Booster Station**

**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.80	1000sqft	0.02	800.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - General Light Industrial use accounts for booster station installation, other non-asphalt accounts for reservoir area, with a buffer zone of 15feet added to square footage of tank.

Vehicle Trips - Operational trips updated to reflect an average of 1 trip per day for maintenance purposes

Water And Wastewater - Booster station only, no water useage from pump station building

Solid Waste - No waste generated

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 applied for PM reductions. 12% moisture level per ASTM method D-2216. Minimum 55% PM Reduction for SJVAPCD Rule 8041.12% moisture content per ASTM method D-2216 (SCAQMD Rule 403 requirement)

Demolition -

Construction Phase - Contruccion Phasing updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

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Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Grading - Total Acres graded default value

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	100.00	195.00
tblConstructionPhase	NumDays	5.00	47.00
tblEnergyUse	T24E	2.01	2.01
tblEnergyUse	T24NG	13.51	13.51
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	1,684.00
tblGrading	MaterialImported	0.00	1,684.00
tblOffRoadEquipment	HorsePower	81.00	231.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38

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tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblSolidWaste	SolidWasteGenerationRate	0.99	0.00
tblVehicleTrips	ST_TR	1.99	1.00

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tblVehicleTrips	SU_TR	5.00	1.00
tblVehicleTrips	WD_TR	4.96	1.00
tblWater	IndoorWaterUseRate	185,000.00	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					
2023	2.6121	21.8632	23.2178	0.0564	1.0235	0.8688	1.2838	0.2487	0.8050	0.8265	0.0000	5,460.8748	5,460.8748	1.6625	0.4315	5,504.5652
Maximum	2.6121	21.8632	23.2178	0.0564	1.0235	0.8688	1.2838	0.2487	0.8050	0.8265	0.0000	5,460.8748	5,460.8748	1.6625	0.4315	5,504.5652

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.6121	21.8632	23.2178	0.0564	0.5543	0.8688	0.9116	0.1491	0.8050	0.8174	0.0000	5,460.8748	5,460.8748	1.6625	0.4315	5,504.5652
Maximum	2.6121	21.8632	23.2178	0.0564	0.5543	0.8688	0.9116	0.1491	0.8050	0.8174	0.0000	5,460.8748	5,460.8748	1.6625	0.4315	5,504.5652

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.84	0.00	28.99	40.06	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Energy	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Mobile	2.8700e-003	3.2000e-003	0.0323	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.4351	7.4351	4.6000e-004	2.9000e-004	7.5321
<b>Total</b>	<b>0.0256</b>	<b>7.0700e-003</b>	<b>0.0367</b>	<b>9.0000e-005</b>	<b>7.4600e-003</b>	<b>3.4000e-004</b>	<b>7.8000e-003</b>	<b>1.9900e-003</b>	<b>3.4000e-004</b>	<b>2.3200e-003</b>		<b>12.0683</b>	<b>12.0683</b>	<b>5.6000e-004</b>	<b>3.7000e-004</b>	<b>12.1929</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	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Energy	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Mobile	2.8700e-003	3.2000e-003	0.0323	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.4351	7.4351	4.6000e-004	2.9000e-004	7.5321
<b>Total</b>	<b>0.0256</b>	<b>7.0700e-003</b>	<b>0.0367</b>	<b>9.0000e-005</b>	<b>7.4600e-003</b>	<b>3.4000e-004</b>	<b>7.8000e-003</b>	<b>1.9900e-003</b>	<b>3.4000e-004</b>	<b>2.3200e-003</b>		<b>12.0683</b>	<b>12.0683</b>	<b>5.6000e-004</b>	<b>3.7000e-004</b>	<b>12.1929</b>

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

**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	1/1/2023	1/13/2023	5	10	
2	Site Preparation	Site Preparation	1/14/2023	1/27/2023	5	10	
3	Grading	Grading	1/28/2023	2/10/2023	5	10	
4	Building Construction	Building Construction	3/18/2023	12/15/2023	5	195	
5	Architectural Coating	Architectural Coating	10/12/2023	12/15/2023	5	47	

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

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

**Acres of Paving: 0.23**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,200; Non-Residential Outdoor: 400; Striped Parking Area: 600 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	0	6.00	187	0.41

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Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Concrete/Industrial Saws	1	8.00	231	0.29
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	2.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	421.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



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Architectural Coating	5	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
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**3.1 Mitigation Measures Construction**

- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0372	0.0000	0.0372	5.6300e-003	0.0000	5.6300e-003			0.0000			0.0000
Off-Road	0.7703	6.4896	6.7465	0.0188		0.2558	0.2558		0.2353	0.2353		1,815.5189	1,815.5189	0.5872		1,830.1982
<b>Total</b>	<b>0.7703</b>	<b>6.4896</b>	<b>6.7465</b>	<b>0.0188</b>	<b>0.0372</b>	<b>0.2558</b>	<b>0.2930</b>	<b>5.6300e-003</b>	<b>0.2353</b>	<b>0.2409</b>		<b>1,815.5189</b>	<b>1,815.5189</b>	<b>0.5872</b>		<b>1,830.1982</b>

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**3.2 Demolition - 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	4.3000e-004	0.0261	6.9700e-003	1.2000e-004	3.5000e-003	1.6000e-004	3.6700e-003	9.6000e-004	1.6000e-004	1.1200e-003		12.8532	12.8532	7.1000e-004	2.0400e-003	13.4792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
<b>Total</b>	<b>0.0324</b>	<b>0.0484</b>	<b>0.3684</b>	<b>1.1100e-003</b>	<b>0.1153</b>	<b>8.3000e-004</b>	<b>0.1161</b>	<b>0.0306</b>	<b>7.8000e-004</b>	<b>0.0314</b>		<b>112.8607</b>	<b>112.8607</b>	<b>3.2300e-003</b>	<b>4.3500e-003</b>	<b>114.2375</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0145	0.0000	0.0145	2.2000e-003	0.0000	2.2000e-003			0.0000			0.0000
Off-Road	0.7703	6.4896	6.7465	0.0188		0.2558	0.2558		0.2353	0.2353	0.0000	1,815.5189	1,815.5189	0.5872		1,830.1982
<b>Total</b>	<b>0.7703</b>	<b>6.4896</b>	<b>6.7465</b>	<b>0.0188</b>	<b>0.0145</b>	<b>0.2558</b>	<b>0.2703</b>	<b>2.2000e-003</b>	<b>0.2353</b>	<b>0.2375</b>	<b>0.0000</b>	<b>1,815.5189</b>	<b>1,815.5189</b>	<b>0.5872</b>		<b>1,830.1982</b>

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**3.2 Demolition - 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	4.3000e-004	0.0261	6.9700e-003	1.2000e-004	2.0500e-003	1.6000e-004	2.2100e-003	6.0000e-004	1.6000e-004	7.6000e-004		12.8532	12.8532	7.1000e-004	2.0400e-003	13.4792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.0583	6.7000e-004	0.0590	0.0165	6.2000e-004	0.0171		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
<b>Total</b>	<b>0.0324</b>	<b>0.0484</b>	<b>0.3684</b>	<b>1.1100e-003</b>	<b>0.0604</b>	<b>8.3000e-004</b>	<b>0.0612</b>	<b>0.0171</b>	<b>7.8000e-004</b>	<b>0.0179</b>		<b>112.8607</b>	<b>112.8607</b>	<b>3.2300e-003</b>	<b>4.3500e-003</b>	<b>114.2375</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003			0.0000			0.0000
Off-Road	0.7226	5.9826	6.9160	0.0185		0.2346	0.2346		0.2158	0.2158		1,787.5379	1,787.5379	0.5781		1,801.9910
<b>Total</b>	<b>0.7226</b>	<b>5.9826</b>	<b>6.9160</b>	<b>0.0185</b>	<b>0.0530</b>	<b>0.2346</b>	<b>0.2876</b>	<b>5.7300e-003</b>	<b>0.2158</b>	<b>0.2216</b>		<b>1,787.5379</b>	<b>1,787.5379</b>	<b>0.5781</b>		<b>1,801.9910</b>

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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
<b>Total</b>	<b>0.0256</b>	<b>0.0179</b>	<b>0.2891</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.0000e-004</b>	<b>0.0242</b>		<b>80.0060</b>	<b>80.0060</b>	<b>2.0200e-003</b>	<b>1.8500e-003</b>	<b>80.6067</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0207	0.0000	0.0207	2.2300e-003	0.0000	2.2300e-003			0.0000			0.0000
Off-Road	0.7226	5.9826	6.9160	0.0185		0.2346	0.2346		0.2158	0.2158	0.0000	1,787.5379	1,787.5379	0.5781		1,801.9910
<b>Total</b>	<b>0.7226</b>	<b>5.9826</b>	<b>6.9160</b>	<b>0.0185</b>	<b>0.0207</b>	<b>0.2346</b>	<b>0.2553</b>	<b>2.2300e-003</b>	<b>0.2158</b>	<b>0.2181</b>	<b>0.0000</b>	<b>1,787.5379</b>	<b>1,787.5379</b>	<b>0.5781</b>		<b>1,801.9910</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**3.3 Site Preparation - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0467	5.4000e-004	0.0472	0.0132	5.0000e-004	0.0137		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
<b>Total</b>	<b>0.0256</b>	<b>0.0179</b>	<b>0.2891</b>	<b>7.9000e-004</b>	<b>0.0467</b>	<b>5.4000e-004</b>	<b>0.0472</b>	<b>0.0132</b>	<b>5.0000e-004</b>	<b>0.0137</b>		<b>80.0060</b>	<b>80.0060</b>	<b>2.0200e-003</b>	<b>1.8500e-003</b>	<b>80.6067</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1972	0.0000	0.1972	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	0.7037	5.7906	6.6371	0.0181		0.2251	0.2251		0.2071	0.2071		1,749.8408	1,749.8408	0.5659		1,763.9892
<b>Total</b>	<b>0.7037</b>	<b>5.7906</b>	<b>6.6371</b>	<b>0.0181</b>	<b>0.1972</b>	<b>0.2251</b>	<b>0.4223</b>	<b>0.0229</b>	<b>0.2071</b>	<b>0.2301</b>		<b>1,749.8408</b>	<b>1,749.8408</b>	<b>0.5659</b>		<b>1,763.9892</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 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	0.0913	5.4936	1.4663	0.0246	0.7369	0.0347	0.7716	0.2020	0.0332	0.2352		2,705.5990	2,705.5990	0.1491	0.4297	2,837.3610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
<b>Total</b>	<b>0.1169</b>	<b>5.5115</b>	<b>1.7554</b>	<b>0.0254</b>	<b>0.8264</b>	<b>0.0352</b>	<b>0.8615</b>	<b>0.2258</b>	<b>0.0337</b>	<b>0.2594</b>		<b>2,785.6051</b>	<b>2,785.6051</b>	<b>0.1511</b>	<b>0.4315</b>	<b>2,917.9677</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0769	0.0000	0.0769	8.9500e-003	0.0000	8.9500e-003			0.0000			0.0000
Off-Road	0.7037	5.7906	6.6371	0.0181		0.2251	0.2251		0.2071	0.2071	0.0000	1,749.8408	1,749.8408	0.5659		1,763.9892
<b>Total</b>	<b>0.7037</b>	<b>5.7906</b>	<b>6.6371</b>	<b>0.0181</b>	<b>0.0769</b>	<b>0.2251</b>	<b>0.3020</b>	<b>8.9500e-003</b>	<b>0.2071</b>	<b>0.2161</b>	<b>0.0000</b>	<b>1,749.8408</b>	<b>1,749.8408</b>	<b>0.5659</b>		<b>1,763.9892</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**3.4 Grading - 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	0.0913	5.4936	1.4663	0.0246	0.4308	0.0347	0.4654	0.1269	0.0332	0.1601		2,705.5990	2,705.5990	0.1491	0.4297	2,837.3610
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0467	5.4000e-004	0.0472	0.0132	5.0000e-004	0.0137		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
<b>Total</b>	<b>0.1169</b>	<b>5.5115</b>	<b>1.7554</b>	<b>0.0254</b>	<b>0.4775</b>	<b>0.0352</b>	<b>0.5126</b>	<b>0.1401</b>	<b>0.0337</b>	<b>0.1738</b>		<b>2,785.6051</b>	<b>2,785.6051</b>	<b>0.1511</b>	<b>0.4315</b>	<b>2,917.9677</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	1.5110	12.8825	13.4369	0.0381		0.4891	0.4891		0.4500	0.4500		3,688.7079	3,688.7079	1.1930		3,718.5330
<b>Total</b>	<b>1.5110</b>	<b>12.8825</b>	<b>13.4369</b>	<b>0.0381</b>		<b>0.4891</b>	<b>0.4891</b>		<b>0.4500</b>	<b>0.4500</b>		<b>3,688.7079</b>	<b>3,688.7079</b>	<b>1.1930</b>		<b>3,718.5330</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**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	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0160	0.0112	0.1807	4.9000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.1000e-004	0.0151		50.0038	50.0038	1.2600e-003	1.1500e-003	50.3792
<b>Total</b>	<b>0.0183</b>	<b>0.0879</b>	<b>0.2104</b>	<b>8.6000e-004</b>	<b>0.0687</b>	<b>7.3000e-004</b>	<b>0.0694</b>	<b>0.0185</b>	<b>6.8000e-004</b>	<b>0.0192</b>		<b>90.0603</b>	<b>90.0603</b>	<b>2.6000e-003</b>	<b>6.9100e-003</b>	<b>92.1854</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	1.5110	12.8825	13.4369	0.0381		0.4891	0.4891		0.4500	0.4500	0.0000	3,688.7079	3,688.7079	1.1930		3,718.5330
<b>Total</b>	<b>1.5110</b>	<b>12.8825</b>	<b>13.4369</b>	<b>0.0381</b>		<b>0.4891</b>	<b>0.4891</b>		<b>0.4500</b>	<b>0.4500</b>	<b>0.0000</b>	<b>3,688.7079</b>	<b>3,688.7079</b>	<b>1.1930</b>		<b>3,718.5330</b>



GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**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	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	7.7900e-003	3.9000e-004	8.1800e-003	2.4600e-003	3.7000e-004	2.8300e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0160	0.0112	0.1807	4.9000e-004	0.0292	3.4000e-004	0.0295	8.2600e-003	3.1000e-004	8.5700e-003		50.0038	50.0038	1.2600e-003	1.1500e-003	50.3792
<b>Total</b>	<b>0.0183</b>	<b>0.0879</b>	<b>0.2104</b>	<b>8.6000e-004</b>	<b>0.0370</b>	<b>7.3000e-004</b>	<b>0.0377</b>	<b>0.0107</b>	<b>6.8000e-004</b>	<b>0.0114</b>		<b>90.0603</b>	<b>90.0603</b>	<b>2.6000e-003</b>	<b>6.9100e-003</b>	<b>92.1854</b>

**3.6 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	0.2170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8626	8.8905	9.5343	0.0173		0.3789	0.3789		0.3543	0.3543		1,672.1059	1,672.1059	0.4666		1,683.7710
<b>Total</b>	<b>1.0796</b>	<b>8.8905</b>	<b>9.5343</b>	<b>0.0173</b>		<b>0.3789</b>	<b>0.3789</b>		<b>0.3543</b>	<b>0.3543</b>		<b>1,672.1059</b>	<b>1,672.1059</b>	<b>0.4666</b>		<b>1,683.7710</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**3.6 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-003	2.2300e-003	0.0361	1.0000e-004	0.0112	7.0000e-005	0.0112	2.9600e-003	6.0000e-005	3.0300e-003		10.0008	10.0008	2.5000e-004	2.3000e-004	10.0758
<b>Total</b>	<b>3.2000e-003</b>	<b>2.2300e-003</b>	<b>0.0361</b>	<b>1.0000e-004</b>	<b>0.0112</b>	<b>7.0000e-005</b>	<b>0.0112</b>	<b>2.9600e-003</b>	<b>6.0000e-005</b>	<b>3.0300e-003</b>		<b>10.0008</b>	<b>10.0008</b>	<b>2.5000e-004</b>	<b>2.3000e-004</b>	<b>10.0758</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	0.2170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8626	8.8905	9.5343	0.0173		0.3789	0.3789		0.3543	0.3543	0.0000	1,672.1059	1,672.1059	0.4666		1,683.7710
<b>Total</b>	<b>1.0796</b>	<b>8.8905</b>	<b>9.5343</b>	<b>0.0173</b>		<b>0.3789</b>	<b>0.3789</b>		<b>0.3543</b>	<b>0.3543</b>	<b>0.0000</b>	<b>1,672.1059</b>	<b>1,672.1059</b>	<b>0.4666</b>		<b>1,683.7710</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**3.6 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-003	2.2300e-003	0.0361	1.0000e-004	5.8300e-003	7.0000e-005	5.9000e-003	1.6500e-003	6.0000e-005	1.7100e-003		10.0008	10.0008	2.5000e-004	2.3000e-004	10.0758
<b>Total</b>	<b>3.2000e-003</b>	<b>2.2300e-003</b>	<b>0.0361</b>	<b>1.0000e-004</b>	<b>5.8300e-003</b>	<b>7.0000e-005</b>	<b>5.9000e-003</b>	<b>1.6500e-003</b>	<b>6.0000e-005</b>	<b>1.7100e-003</b>		<b>10.0008</b>	<b>10.0008</b>	<b>2.5000e-004</b>	<b>2.3000e-004</b>	<b>10.0758</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8700e-003	3.2000e-003	0.0323	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.4351	7.4351	4.6000e-004	2.9000e-004	7.5321
Unmitigated	2.8700e-003	3.2000e-003	0.0323	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.4351	7.4351	4.6000e-004	2.9000e-004	7.5321

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.80	0.80	0.80	3,543	3,543
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.80</b>	<b>0.80</b>	<b>0.80</b>	<b>3,543</b>	<b>3,543</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

**5.0 Energy Detail**

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
NaturalGas Unmitigated	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	39.3617	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Other Non-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
<b>Total</b>		<b>4.2000e-004</b>	<b>3.8600e-003</b>	<b>3.2400e-003</b>	<b>2.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>4.6308</b>	<b>4.6308</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>4.6583</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.0393617	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Other Non-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
<b>Total</b>		<b>4.2000e-004</b>	<b>3.8600e-003</b>	<b>3.2400e-003</b>	<b>2.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>4.6308</b>	<b>4.6308</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>4.6583</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Unmitigated	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
<b>Total</b>	<b>0.0223</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>		<b>2.5200e-003</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
<b>Total</b>	<b>0.0223</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>		<b>2.5200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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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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GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**GSWC Roseton Plant New Tank and Booster Station**

**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.80	1000sqft	0.02	800.00	0
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - General Light Industrial use accounts for booster station installation, other non-asphalt accounts for reservoir area, with a buffer zone of 15feet added to square footage of tank.

Vehicle Trips - Operational trips updated to reflect an average of 1 trip per day for maintenance purposes

Water And Wastewater - Booster station only, no water useage from pump station building

Solid Waste - No waste generated

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 applied for PM reductions. 12% moisture level per ASTM method D-2216. Minimum 55% PM Reduction for SJVAPCD Rule 8041.12% moisture content per ASTM method D-2216 (SCAQMD Rule 403 requirement)

Demolition -

Construction Phase - Contruccion Phasing updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Off-road Equipment - Construction Equipment updated to match construction questionnaire

Grading - Total Acres graded default value

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	100.00	195.00
tblConstructionPhase	NumDays	5.00	47.00
tblEnergyUse	T24E	2.01	2.01
tblEnergyUse	T24NG	13.51	13.51
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	1,684.00
tblGrading	MaterialImported	0.00	1,684.00
tblOffRoadEquipment	HorsePower	81.00	231.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblSolidWaste	SolidWasteGenerationRate	0.99	0.00
tblVehicleTrips	ST_TR	1.99	1.00

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

tblVehicleTrips	SU_TR	5.00	1.00
tblVehicleTrips	WD_TR	4.96	1.00
tblWater	IndoorWaterUseRate	185,000.00	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					
2023	2.6134	21.8682	23.2012	0.0564	1.0235	0.8688	1.2839	0.2487	0.8050	0.8265	0.0000	5,457.779 1	5,457.779 1	1.6625	0.4321	5,501.502 6
<b>Maximum</b>	<b>2.6134</b>	<b>21.8682</b>	<b>23.2012</b>	<b>0.0564</b>	<b>1.0235</b>	<b>0.8688</b>	<b>1.2839</b>	<b>0.2487</b>	<b>0.8050</b>	<b>0.8265</b>	<b>0.0000</b>	<b>5,457.779 1</b>	<b>5,457.779 1</b>	<b>1.6625</b>	<b>0.4321</b>	<b>5,501.502 6</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.6134	21.8682	23.2012	0.0564	0.5543	0.8688	0.9116	0.1491	0.8050	0.8174	0.0000	5,457.779 1	5,457.779 1	1.6625	0.4321	5,501.502 6
<b>Maximum</b>	<b>2.6134</b>	<b>21.8682</b>	<b>23.2012</b>	<b>0.0564</b>	<b>0.5543</b>	<b>0.8688</b>	<b>0.9116</b>	<b>0.1491</b>	<b>0.8050</b>	<b>0.8174</b>	<b>0.0000</b>	<b>5,457.779 1</b>	<b>5,457.779 1</b>	<b>1.6625</b>	<b>0.4321</b>	<b>5,501.502 6</b>

## GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.84	0.00	29.00	40.06	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Energy	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Mobile	2.8300e-003	3.4600e-003	0.0313	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.1159	7.1159	4.7000e-004	3.0000e-004	7.2169
<b>Total</b>	<b>0.0255</b>	<b>7.3300e-003</b>	<b>0.0356</b>	<b>9.0000e-005</b>	<b>7.4600e-003</b>	<b>3.4000e-004</b>	<b>7.8000e-003</b>	<b>1.9900e-003</b>	<b>3.4000e-004</b>	<b>2.3200e-003</b>		<b>11.7491</b>	<b>11.7491</b>	<b>5.7000e-004</b>	<b>3.8000e-004</b>	<b>11.8777</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	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Energy	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Mobile	2.8300e-003	3.4600e-003	0.0313	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.1159	7.1159	4.7000e-004	3.0000e-004	7.2169
<b>Total</b>	<b>0.0255</b>	<b>7.3300e-003</b>	<b>0.0356</b>	<b>9.0000e-005</b>	<b>7.4600e-003</b>	<b>3.4000e-004</b>	<b>7.8000e-003</b>	<b>1.9900e-003</b>	<b>3.4000e-004</b>	<b>2.3200e-003</b>		<b>11.7491</b>	<b>11.7491</b>	<b>5.7000e-004</b>	<b>3.8000e-004</b>	<b>11.8777</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

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

**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	1/1/2023	1/13/2023	5	10	
2	Site Preparation	Site Preparation	1/14/2023	1/27/2023	5	10	
3	Grading	Grading	1/28/2023	2/10/2023	5	10	
4	Building Construction	Building Construction	3/18/2023	12/15/2023	5	195	
5	Architectural Coating	Architectural Coating	10/12/2023	12/15/2023	5	47	

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

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

**Acres of Paving: 0.23**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,200; Non-Residential Outdoor: 400; Striped Parking Area: 600 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	0	6.00	187	0.41



GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Concrete/Industrial Saws	1	8.00	231	0.29
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Skid Steer Loaders	1	8.00	65	0.37
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	2.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	421.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

Architectural Coating	5	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
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**3.1 Mitigation Measures Construction**

- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0372	0.0000	0.0372	5.6300e-003	0.0000	5.6300e-003			0.0000			0.0000
Off-Road	0.7703	6.4896	6.7465	0.0188		0.2558	0.2558		0.2353	0.2353		1,815.5189	1,815.5189	0.5872		1,830.1982
<b>Total</b>	<b>0.7703</b>	<b>6.4896</b>	<b>6.7465</b>	<b>0.0188</b>	<b>0.0372</b>	<b>0.2558</b>	<b>0.2930</b>	<b>5.6300e-003</b>	<b>0.2353</b>	<b>0.2409</b>		<b>1,815.5189</b>	<b>1,815.5189</b>	<b>0.5872</b>		<b>1,830.1982</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.2 Demolition - 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	4.1000e-004	0.0273	7.0600e-003	1.2000e-004	3.5000e-003	1.7000e-004	3.6700e-003	9.6000e-004	1.6000e-004	1.1200e-003		12.8668	12.8668	7.1000e-004	2.0400e-003	13.4933
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
<b>Total</b>	<b>0.0348</b>	<b>0.0519</b>	<b>0.3393</b>	<b>1.0600e-003</b>	<b>0.1153</b>	<b>8.4000e-004</b>	<b>0.1161</b>	<b>0.0306</b>	<b>7.8000e-004</b>	<b>0.0314</b>		<b>107.6021</b>	<b>107.6021</b>	<b>3.2700e-003</b>	<b>4.5100e-003</b>	<b>109.0272</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0145	0.0000	0.0145	2.2000e-003	0.0000	2.2000e-003			0.0000			0.0000
Off-Road	0.7703	6.4896	6.7465	0.0188		0.2558	0.2558		0.2353	0.2353	0.0000	1,815.5189	1,815.5189	0.5872		1,830.1982
<b>Total</b>	<b>0.7703</b>	<b>6.4896</b>	<b>6.7465</b>	<b>0.0188</b>	<b>0.0145</b>	<b>0.2558</b>	<b>0.2703</b>	<b>2.2000e-003</b>	<b>0.2353</b>	<b>0.2375</b>	<b>0.0000</b>	<b>1,815.5189</b>	<b>1,815.5189</b>	<b>0.5872</b>		<b>1,830.1982</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.2 Demolition - 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	4.1000e-004	0.0273	7.0600e-003	1.2000e-004	2.0500e-003	1.7000e-004	2.2100e-003	6.0000e-004	1.6000e-004	7.6000e-004		12.8668	12.8668	7.1000e-004	2.0400e-003	13.4933
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.0583	6.7000e-004	0.0590	0.0165	6.2000e-004	0.0171		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
<b>Total</b>	<b>0.0348</b>	<b>0.0519</b>	<b>0.3393</b>	<b>1.0600e-003</b>	<b>0.0604</b>	<b>8.4000e-004</b>	<b>0.0612</b>	<b>0.0171</b>	<b>7.8000e-004</b>	<b>0.0179</b>		<b>107.6021</b>	<b>107.6021</b>	<b>3.2700e-003</b>	<b>4.5100e-003</b>	<b>109.0272</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003			0.0000			0.0000
Off-Road	0.7226	5.9826	6.9160	0.0185		0.2346	0.2346		0.2158	0.2158		1,787.5379	1,787.5379	0.5781		1,801.9910
<b>Total</b>	<b>0.7226</b>	<b>5.9826</b>	<b>6.9160</b>	<b>0.0185</b>	<b>0.0530</b>	<b>0.2346</b>	<b>0.2876</b>	<b>5.7300e-003</b>	<b>0.2158</b>	<b>0.2216</b>		<b>1,787.5379</b>	<b>1,787.5379</b>	<b>0.5781</b>		<b>1,801.9910</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.3 Site Preparation - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
<b>Total</b>	<b>0.0275</b>	<b>0.0197</b>	<b>0.2658</b>	<b>7.5000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.0000e-004</b>	<b>0.0242</b>		<b>75.7883</b>	<b>75.7883</b>	<b>2.0500e-003</b>	<b>1.9700e-003</b>	<b>76.4271</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0207	0.0000	0.0207	2.2300e-003	0.0000	2.2300e-003			0.0000			0.0000
Off-Road	0.7226	5.9826	6.9160	0.0185		0.2346	0.2346		0.2158	0.2158	0.0000	1,787.5379	1,787.5379	0.5781		1,801.9910
<b>Total</b>	<b>0.7226</b>	<b>5.9826</b>	<b>6.9160</b>	<b>0.0185</b>	<b>0.0207</b>	<b>0.2346</b>	<b>0.2553</b>	<b>2.2300e-003</b>	<b>0.2158</b>	<b>0.2181</b>	<b>0.0000</b>	<b>1,787.5379</b>	<b>1,787.5379</b>	<b>0.5781</b>		<b>1,801.9910</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.3 Site Preparation - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0467	5.4000e-004	0.0472	0.0132	5.0000e-004	0.0137		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
<b>Total</b>	<b>0.0275</b>	<b>0.0197</b>	<b>0.2658</b>	<b>7.5000e-004</b>	<b>0.0467</b>	<b>5.4000e-004</b>	<b>0.0472</b>	<b>0.0132</b>	<b>5.0000e-004</b>	<b>0.0137</b>		<b>75.7883</b>	<b>75.7883</b>	<b>2.0500e-003</b>	<b>1.9700e-003</b>	<b>76.4271</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1972	0.0000	0.1972	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	0.7037	5.7906	6.6371	0.0181		0.2251	0.2251		0.2071	0.2071		1,749.8408	1,749.8408	0.5659		1,763.9892
<b>Total</b>	<b>0.7037</b>	<b>5.7906</b>	<b>6.6371</b>	<b>0.0181</b>	<b>0.1972</b>	<b>0.2251</b>	<b>0.4223</b>	<b>0.0229</b>	<b>0.2071</b>	<b>0.2301</b>		<b>1,749.8408</b>	<b>1,749.8408</b>	<b>0.5659</b>		<b>1,763.9892</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.4 Grading - 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	0.0854	5.7358	1.4864	0.0247	0.7369	0.0347	0.7717	0.2020	0.0332	0.2353		2,708.4509	2,708.4509	0.1488	0.4301	2,840.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
<b>Total</b>	<b>0.1129</b>	<b>5.7555</b>	<b>1.7522</b>	<b>0.0254</b>	<b>0.8264</b>	<b>0.0353</b>	<b>0.8616</b>	<b>0.2258</b>	<b>0.0337</b>	<b>0.2595</b>		<b>2,784.2392</b>	<b>2,784.2392</b>	<b>0.1509</b>	<b>0.4321</b>	<b>2,916.7705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0769	0.0000	0.0769	8.9500e-003	0.0000	8.9500e-003			0.0000			0.0000
Off-Road	0.7037	5.7906	6.6371	0.0181		0.2251	0.2251		0.2071	0.2071	0.0000	1,749.8408	1,749.8408	0.5659		1,763.9892
<b>Total</b>	<b>0.7037</b>	<b>5.7906</b>	<b>6.6371</b>	<b>0.0181</b>	<b>0.0769</b>	<b>0.2251</b>	<b>0.3020</b>	<b>8.9500e-003</b>	<b>0.2071</b>	<b>0.2161</b>	<b>0.0000</b>	<b>1,749.8408</b>	<b>1,749.8408</b>	<b>0.5659</b>		<b>1,763.9892</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.4 Grading - 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	0.0854	5.7358	1.4864	0.0247	0.4308	0.0347	0.4655	0.1269	0.0332	0.1601		2,708.4509	2,708.4509	0.1488	0.4301	2,840.3433
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0467	5.4000e-004	0.0472	0.0132	5.0000e-004	0.0137		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
<b>Total</b>	<b>0.1129</b>	<b>5.7555</b>	<b>1.7522</b>	<b>0.0254</b>	<b>0.4775</b>	<b>0.0353</b>	<b>0.5127</b>	<b>0.1401</b>	<b>0.0337</b>	<b>0.1739</b>		<b>2,784.2392</b>	<b>2,784.2392</b>	<b>0.1509</b>	<b>0.4321</b>	<b>2,916.7705</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	1.5110	12.8825	13.4369	0.0381		0.4891	0.4891		0.4500	0.4500		3,688.7079	3,688.7079	1.1930		3,718.5330
<b>Total</b>	<b>1.5110</b>	<b>12.8825</b>	<b>13.4369</b>	<b>0.0381</b>		<b>0.4891</b>	<b>0.4891</b>		<b>0.4500</b>	<b>0.4500</b>		<b>3,688.7079</b>	<b>3,688.7079</b>	<b>1.1930</b>		<b>3,718.5330</b>



GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**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	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0172	0.0123	0.1661	4.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.1000e-004	0.0151		47.3677	47.3677	1.2800e-003	1.2300e-003	47.7670
<b>Total</b>	<b>0.0194</b>	<b>0.0927</b>	<b>0.1968</b>	<b>8.4000e-004</b>	<b>0.0687</b>	<b>7.3000e-004</b>	<b>0.0694</b>	<b>0.0185</b>	<b>6.8000e-004</b>	<b>0.0192</b>		<b>87.4917</b>	<b>87.4917</b>	<b>2.6200e-003</b>	<b>7.0000e-003</b>	<b>89.6452</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	1.5110	12.8825	13.4369	0.0381		0.4891	0.4891		0.4500	0.4500	0.0000	3,688.7079	3,688.7079	1.1930		3,718.5330
<b>Total</b>	<b>1.5110</b>	<b>12.8825</b>	<b>13.4369</b>	<b>0.0381</b>		<b>0.4891</b>	<b>0.4891</b>		<b>0.4500</b>	<b>0.4500</b>	<b>0.0000</b>	<b>3,688.7079</b>	<b>3,688.7079</b>	<b>1.1930</b>		<b>3,718.5330</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**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	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	7.7900e-003	3.9000e-004	8.1800e-003	2.4600e-003	3.7000e-004	2.8300e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0172	0.0123	0.1661	4.7000e-004	0.0292	3.4000e-004	0.0295	8.2600e-003	3.1000e-004	8.5700e-003		47.3677	47.3677	1.2800e-003	1.2300e-003	47.7670
<b>Total</b>	<b>0.0194</b>	<b>0.0927</b>	<b>0.1968</b>	<b>8.4000e-004</b>	<b>0.0370</b>	<b>7.3000e-004</b>	<b>0.0377</b>	<b>0.0107</b>	<b>6.8000e-004</b>	<b>0.0114</b>		<b>87.4917</b>	<b>87.4917</b>	<b>2.6200e-003</b>	<b>7.0000e-003</b>	<b>89.6452</b>

**3.6 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	0.2170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8626	8.8905	9.5343	0.0173		0.3789	0.3789		0.3543	0.3543		1,672.1059	1,672.1059	0.4666		1,683.7710
<b>Total</b>	<b>1.0796</b>	<b>8.8905</b>	<b>9.5343</b>	<b>0.0173</b>		<b>0.3789</b>	<b>0.3789</b>		<b>0.3543</b>	<b>0.3543</b>		<b>1,672.1059</b>	<b>1,672.1059</b>	<b>0.4666</b>		<b>1,683.7710</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.6 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4400e-003	2.4600e-003	0.0332	9.0000e-005	0.0112	7.0000e-005	0.0112	2.9600e-003	6.0000e-005	3.0300e-003		9.4735	9.4735	2.6000e-004	2.5000e-004	9.5534
<b>Total</b>	<b>3.4400e-003</b>	<b>2.4600e-003</b>	<b>0.0332</b>	<b>9.0000e-005</b>	<b>0.0112</b>	<b>7.0000e-005</b>	<b>0.0112</b>	<b>2.9600e-003</b>	<b>6.0000e-005</b>	<b>3.0300e-003</b>		<b>9.4735</b>	<b>9.4735</b>	<b>2.6000e-004</b>	<b>2.5000e-004</b>	<b>9.5534</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	0.2170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8626	8.8905	9.5343	0.0173		0.3789	0.3789		0.3543	0.3543	0.0000	1,672.1059	1,672.1059	0.4666		1,683.7710
<b>Total</b>	<b>1.0796</b>	<b>8.8905</b>	<b>9.5343</b>	<b>0.0173</b>		<b>0.3789</b>	<b>0.3789</b>		<b>0.3543</b>	<b>0.3543</b>	<b>0.0000</b>	<b>1,672.1059</b>	<b>1,672.1059</b>	<b>0.4666</b>		<b>1,683.7710</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**3.6 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4400e-003	2.4600e-003	0.0332	9.0000e-005	5.8300e-003	7.0000e-005	5.9000e-003	1.6500e-003	6.0000e-005	1.7100e-003		9.4735	9.4735	2.6000e-004	2.5000e-004	9.5534
<b>Total</b>	<b>3.4400e-003</b>	<b>2.4600e-003</b>	<b>0.0332</b>	<b>9.0000e-005</b>	<b>5.8300e-003</b>	<b>7.0000e-005</b>	<b>5.9000e-003</b>	<b>1.6500e-003</b>	<b>6.0000e-005</b>	<b>1.7100e-003</b>		<b>9.4735</b>	<b>9.4735</b>	<b>2.6000e-004</b>	<b>2.5000e-004</b>	<b>9.5534</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8300e-003	3.4600e-003	0.0313	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.1159	7.1159	4.7000e-004	3.0000e-004	7.2169
Unmitigated	2.8300e-003	3.4600e-003	0.0313	7.0000e-005	7.4600e-003	5.0000e-005	7.5100e-003	1.9900e-003	5.0000e-005	2.0300e-003		7.1159	7.1159	4.7000e-004	3.0000e-004	7.2169

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.80	0.80	0.80	3,543	3,543
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.80</b>	<b>0.80</b>	<b>0.80</b>	<b>3,543</b>	<b>3,543</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

**5.0 Energy Detail**

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
NaturalGas Unmitigated	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	39.3617	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Other Non-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
<b>Total</b>		<b>4.2000e-004</b>	<b>3.8600e-003</b>	<b>3.2400e-003</b>	<b>2.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>4.6308</b>	<b>4.6308</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>4.6583</b>

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.0393617	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.6308	4.6308	9.0000e-005	8.0000e-005	4.6583
Other Non-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
<b>Total</b>		<b>4.2000e-004</b>	<b>3.8600e-003</b>	<b>3.2400e-003</b>	<b>2.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>4.6308</b>	<b>4.6308</b>	<b>9.0000e-005</b>	<b>8.0000e-005</b>	<b>4.6583</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
Unmitigated	0.0223	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
<b>Total</b>	<b>0.0223</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>		<b>2.5200e-003</b>



GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3600e-003	2.3600e-003	1.0000e-005		2.5200e-003
<b>Total</b>	<b>0.0223</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>		<b>2.5200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

GSWC Roseton Plant New Tank and Booster Station - Los Angeles-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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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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Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours**

**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	10.00	1000sqft	0.23	10,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - No construction this model

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	PhaseEndDate	9/8/2022	9/1/2022
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	173.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	24.00



Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.4000e-003	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Stationary	6.8128	19.0441	24.7239	0.0327		1.0023	1.0023		1.0023	1.0023		3,485.6626	3,485.6626	0.4887		3,497.8800
<b>Total</b>	<b>6.8172</b>	<b>19.0441</b>	<b>24.7249</b>	<b>0.0327</b>	<b>0.0000</b>	<b>1.0023</b>	<b>1.0023</b>	<b>0.0000</b>	<b>1.0023</b>	<b>1.0023</b>		<b>3,485.6648</b>	<b>3,485.6648</b>	<b>0.4887</b>	<b>0.0000</b>	<b>3,497.8823</b>

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.4000e-003	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Stationary	6.8128	19.0441	24.7239	0.0327		1.0023	1.0023		1.0023	1.0023		3,485.6626	3,485.6626	0.4887		3,497.8800
<b>Total</b>	<b>6.8172</b>	<b>19.0441</b>	<b>24.7249</b>	<b>0.0327</b>	<b>0.0000</b>	<b>1.0023</b>	<b>1.0023</b>	<b>0.0000</b>	<b>1.0023</b>	<b>1.0023</b>		<b>3,485.6648</b>	<b>3,485.6648</b>	<b>0.4887</b>	<b>0.0000</b>	<b>3,497.8823</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**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	9/2/2022	9/1/2022	5	0	

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

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









Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
<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>

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4000e-003	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003
Unmitigated	4.4000e-003	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003
<b>Total</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>	<b>1.0000e-005</b>		<b>2.3300e-003</b>

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-005	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005		2.3300e-003
<b>Total</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>	<b>1.0000e-005</b>		<b>2.3300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Fire Pumps and Emergency Generators

Roseton Plant New Tank & Booster Station - Backup Generator 200 Hours - Los Angeles-South Coast County, Summer

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	200	173	0.73	Diesel

**Boilers**

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

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (100 - 175 HP)	6.8128	19.0441	24.7239	0.0327		1.0023	1.0023		1.0023	1.0023		3,485.6626	3,485.6626	0.4887		3,497.8800
<b>Total</b>	<b>6.8128</b>	<b>19.0441</b>	<b>24.7239</b>	<b>0.0327</b>		<b>1.0023</b>	<b>1.0023</b>		<b>1.0023</b>	<b>1.0023</b>		<b>3,485.6626</b>	<b>3,485.6626</b>	<b>0.4887</b>		<b>3,497.8800</b>

**11.0 Vegetation**

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