

Legend
 ● Municipal Well (Approximate Location)

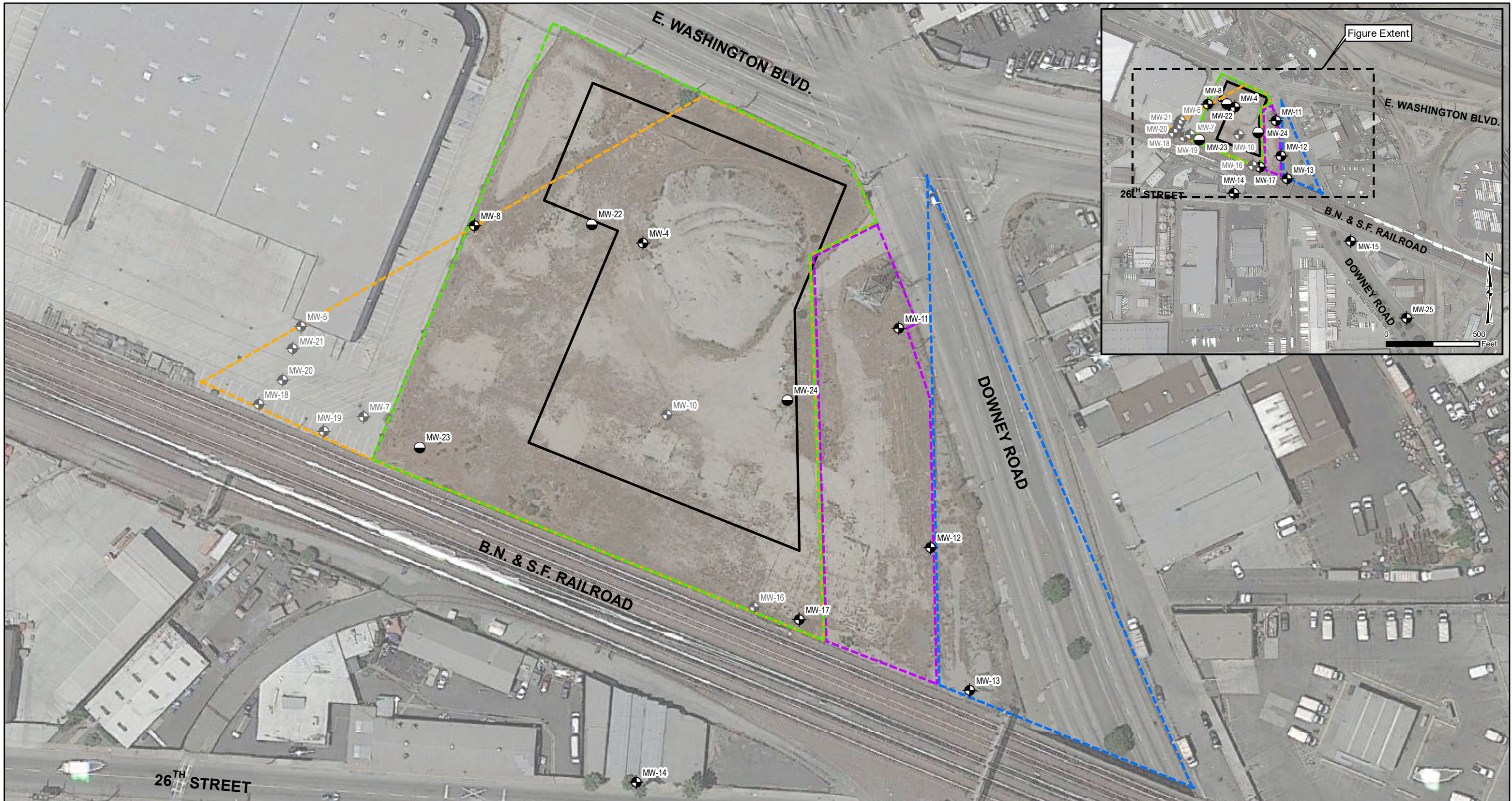


Site Location Map
 Former Soco-Lynch Corp Facility
 3270 E. Washington Blvd.
 Vernon, California

Geosyntec
 consultants

Figure
1

WR2587 February 2021



Legend		<p>Note: LADWP = Los Angeles Department of Water and Power MLOC = Mouren-Laurens Oil Company Proposed building footprint provided to Geosyntec by CRP Vernon LLC. Imagery Source: Google Earth Pro, 2018 June.</p>
<ul style="list-style-type: none"> Groundwater Monitoring Well, Perched Zone Groundwater Monitoring Well, Deep Zone Groundwater Monitoring Well, Perched Zone (abandoned) Footprint of Proposed Building 	<ul style="list-style-type: none"> LADWP Right-of-way Former MLOC Facility Property Boundary (2013-present) Historical Property Boundary (1940s-2013) 	

<p>Site Vicinity and Location Former Soco-Lynch Corp Facility 3270 E. Washington Blvd. Vernon, California</p>	
WR2587	February 2021
Figure 2	

Appendix A:
CalEEMod Model Calculations
(Annual and Summer Summary Reports)

Soco Vernon - South Coast Air Basin, Annual

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

**Soco Vernon
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	143.75	1000sqft	3.30	143,748.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	13			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	690.4	CH4 Intensity (lb/MWhr)	0.049	N2O Intensity (lb/MWhr)	0.007

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Soco Vernon project, Vernon California

Land Use -

Off-road Equipment - equipment for well installation include one drill rig, one forklift, pressure washer for drill rod decon and one support truck

Off-road Equipment - trenching for SVE pipes 6000 linear feet, 2 feet wide and 1 foot deep. Backfill with imported base. Excavated soil will be transported off site for disposal. Model default horsepower are used.

Off-road Equipment - equipment for drilling 28 ISCO wells include: one drill rig, one pressure washer for drill rod decon, one forklift and concrete cutters and concrete mixer; model default equipment horsepower are used

Trips and VMT - no vendor trip during well installation. Waste hauling distance is 83 miles to Soil Safe Facility in Adelanto, CA. Travel distance for workers is 4.5 miles (from downtown Los Angeles office to the site). 2 round trips for soil base vendor during trenching for SVE. Default vehicle class is used.

Vehicle Trips - 4 daily trips during full-scale ISCO injection; One site visit quarterly for routine O&M and 3 days twice per year for GW monitoring, travel distance is from office to the site (4.5 miles)

Fleet Mix - Used default fleet mix

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.00	8.6030e-003
tblFleetMix	LDA	0.00	0.54
tblFleetMix	LDT1	0.00	0.06
tblFleetMix	LDT2	0.00	0.18
tblFleetMix	LHD1	0.00	0.02
tblFleetMix	LHD2	0.00	6.2270e-003
tblFleetMix	MCY	0.00	0.02
tblFleetMix	MDV	0.00	0.13
tblFleetMix	MH	0.00	3.8450e-003
tblFleetMix	MHD	0.00	0.01
tblFleetMix	OBUS	0.00	8.2900e-004
tblFleetMix	SBUS	0.00	7.4100e-004
tblFleetMix	UBUS	0.00	5.2100e-004
tblOffRoadEquipment	HorsePower	221.00	158.00
tblOffRoadEquipment	HorsePower	221.00	158.00
tblOffRoadEquipment	HorsePower	9.00	97.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	HorsePower	13.00	187.00
tblOffRoadEquipment	HorsePower	78.00	247.00
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.56	0.37
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	LoadFactor	0.30	0.41
tblOffRoadEquipment	LoadFactor	0.50	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	1.00
tblVehicleTrips	CC_TL	8.40	4.50
tblVehicleTrips	CC_TTP	0.00	95.00
tblVehicleTrips	CNW_TL	6.90	83.00
tblVehicleTrips	CNW_TTP	41.00	5.00
tblVehicleTrips	CW_TTP	59.00	0.00

2.0 Emissions Summary

Soco Vernon - South Coast Air Basin, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2021	9-30-2021	0.0854	0.0854
		Highest	0.0854	0.0854

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003
Energy	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	172.4644	172.4644	0.0116	1.8500e-003	173.3060
Mobile	0.1267	0.1636	1.2692	2.6900e-003	0.2694	2.3300e-003	0.2717	0.0719	2.1800e-003	0.0741	0.0000	248.4310	248.4310	0.0171	0.0116	252.3170
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	10.5462	135.5503	146.0965	1.0928	0.0270	181.4483
Total	0.6476	0.1752	1.2808	2.7600e-003	0.2694	3.2200e-003	0.2726	0.0719	3.0700e-003	0.0750	10.5462	556.4492	566.9954	1.1215	0.0404	607.0751

Soco Vernon - South Coast Air Basin, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003
Energy	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	172.4644	172.4644	0.0116	1.8500e-003	173.3060
Mobile	0.1267	0.1636	1.2692	2.6900e-003	0.2694	2.3300e-003	0.2717	0.0719	2.1800e-003	0.0741	0.0000	248.4310	248.4310	0.0171	0.0116	252.3170
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	10.5462	135.5503	146.0965	1.0928	0.0270	181.4483
Total	0.6476	0.1752	1.2808	2.7600e-003	0.2694	3.2200e-003	0.2726	0.0719	3.0700e-003	0.0750	10.5462	556.4492	566.9954	1.1215	0.0404	607.0751

	ROG	NOx	CO	SO2	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	Installation of SVE wells	Trenching	9/1/2021	9/29/2021	5	21	
2	Trenching for SVE pipes	Trenching	9/29/2021	10/12/2021	5	10	
3	Installation of 12 permanent and 16 temporary ISCO injection wells	Trenching	10/6/2021	11/3/2021	5	21	

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Installation of SVE wells	Bore/Drill Rigs	1	8.00	158	0.38
Installation of SVE wells	Cement and Mortar Mixers	1	8.00	9	0.56
Installation of SVE wells	Forklifts	1	8.00	247	0.40
Installation of SVE wells	Pressure Washers	1	8.00	13	0.30
Trenching for SVE pipes	Trenchers	1	8.00	247	0.40
Installation of 12 permanent and 16 temporary ISCO injection wells	Bore/Drill Rigs	1	8.00	158	0.38
Installation of 12 permanent and 16 temporary ISCO injection wells	Cement and Mortar Mixers	1	8.00	97	0.37
Installation of 12 permanent and 16 temporary ISCO injection wells	Forklifts	1	8.00	247	0.40
Installation of 12 permanent and 16 temporary ISCO injection wells	Pressure Washers	1	8.00	187	0.41

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
Installation of SVE wells	4	1.00	0.00	1.00	4.50	6.90	83.00	LD_Mix	HDT_Mix	HHDT
Trenching for SVE pipes	1	3.00	2.00	0.00	4.50	83.00	20.00	LD_Mix	HDT_Mix	HHDT
Installation of 12 permanent and 16 temporary ISCO injection wells	4	1.00	0.00	0.00	4.50	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Installation of SVE wells - 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					
Off-Road	7.3400e-003	0.0721	0.0632	1.6000e-004		2.8900e-003	2.8900e-003		2.6800e-003	2.6800e-003	0.0000	13.5218	13.5218	4.1800e-003	0.0000	13.6265
Total	7.3400e-003	0.0721	0.0632	1.6000e-004		2.8900e-003	2.8900e-003		2.6800e-003	2.6800e-003	0.0000	13.5218	13.5218	4.1800e-003	0.0000	13.6265

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	1.0000e-005	3.7000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1259	0.1259	1.0000e-005	2.0000e-005	0.1321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312
Total	3.0000e-005	3.8000e-004	2.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1567	0.1567	1.0000e-005	2.0000e-005	0.1633

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

3.2 Installation of SVE wells - 2021

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	7.3400e-003	0.0721	0.0632	1.6000e-004		2.8900e-003	2.8900e-003		2.6800e-003	2.6800e-003	0.0000	13.5218	13.5218	4.1800e-003	0.0000	13.6264
Total	7.3400e-003	0.0721	0.0632	1.6000e-004		2.8900e-003	2.8900e-003		2.6800e-003	2.6800e-003	0.0000	13.5218	13.5218	4.1800e-003	0.0000	13.6264

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	1.0000e-005	3.7000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1259	0.1259	1.0000e-005	2.0000e-005	0.1321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312
Total	3.0000e-005	3.8000e-004	2.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1567	0.1567	1.0000e-005	2.0000e-005	0.1633

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

3.3 Trenching for SVE pipes - 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					
Off-Road	3.1000e-003	0.0380	0.0145	4.0000e-005		1.5000e-003	1.5000e-003		1.3800e-003	1.3800e-003	0.0000	3.7453	3.7453	1.2100e-003	0.0000	3.7756
Total	3.1000e-003	0.0380	0.0145	4.0000e-005		1.5000e-003	1.5000e-003		1.3800e-003	1.3800e-003	0.0000	3.7453	3.7453	1.2100e-003	0.0000	3.7756

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	2.4000e-004	5.8100e-003	1.2900e-003	2.0000e-005	7.6000e-004	1.0000e-004	8.6000e-004	2.2000e-004	1.0000e-004	3.2000e-004	0.0000	2.1553	2.1553	8.0000e-005	3.1000e-004	2.2500
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0440	0.0440	0.0000	0.0000	0.0446
Total	2.7000e-004	5.8300e-003	1.5200e-003	2.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.3000e-004	1.0000e-004	3.3000e-004	0.0000	2.1993	2.1993	8.0000e-005	3.1000e-004	2.2945

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

3.3 Trenching for SVE pipes - 2021

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	3.1000e-003	0.0380	0.0145	4.0000e-005		1.5000e-003	1.5000e-003		1.3800e-003	1.3800e-003	0.0000	3.7453	3.7453	1.2100e-003	0.0000	3.7756
Total	3.1000e-003	0.0380	0.0145	4.0000e-005		1.5000e-003	1.5000e-003		1.3800e-003	1.3800e-003	0.0000	3.7453	3.7453	1.2100e-003	0.0000	3.7756

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	2.4000e-004	5.8100e-003	1.2900e-003	2.0000e-005	7.6000e-004	1.0000e-004	8.6000e-004	2.2000e-004	1.0000e-004	3.2000e-004	0.0000	2.1553	2.1553	8.0000e-005	3.1000e-004	2.2500
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0440	0.0440	0.0000	0.0000	0.0446
Total	2.7000e-004	5.8300e-003	1.5200e-003	2.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.3000e-004	1.0000e-004	3.3000e-004	0.0000	2.1993	2.1993	8.0000e-005	3.1000e-004	2.2945

Soco Vernon - South Coast Air Basin, Annual

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

3.4 Installation of 12 permanent and 16 temporary ISCO injection wells - 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					
Off-Road	7.6600e-003	0.0688	0.0714	2.3000e-004		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	19.9883	19.9883	4.2000e-003	0.0000	20.0933
Total	7.6600e-003	0.0688	0.0714	2.3000e-004		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	19.9883	19.9883	4.2000e-003	0.0000	20.0933

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312
Total	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312

Soco Vernon - South Coast Air Basin, Annual

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

3.4 Installation of 12 permanent and 16 temporary ISCO injection wells - 2021

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	7.6600e-003	0.0688	0.0714	2.3000e-004		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	19.9883	19.9883	4.2000e-003	0.0000	20.0933
Total	7.6600e-003	0.0688	0.0714	2.3000e-004		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	19.9883	19.9883	4.2000e-003	0.0000	20.0933

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312
Total	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0308	0.0308	0.0000	0.0000	0.0312

Soco Vernon - South Coast Air Basin, Annual

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	tons/yr										MT/yr					
Mitigated	0.1267	0.1636	1.2692	2.6900e-003	0.2694	2.3300e-003	0.2717	0.0719	2.1800e-003	0.0741	0.0000	248.4310	248.4310	0.0171	0.0116	252.3170
Unmitigated	0.1267	0.1636	1.2692	2.6900e-003	0.2694	2.3300e-003	0.2717	0.0719	2.1800e-003	0.0741	0.0000	248.4310	248.4310	0.0171	0.0116	252.3170

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	250.13	250.13	250.13	715,555	715,555
Total	250.13	250.13	250.13	715,555	715,555

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
Unrefrigerated Warehouse-No	16.60	4.50	83.00	0.00	95.00	5.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.544368	0.059978	0.184244	0.130791	0.023854	0.006227	0.012011	0.008603	0.000829	0.000521	0.023988	0.000741	0.003845

Soco Vernon - South Coast Air Basin, Annual

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.8073	159.8073	0.0113	1.6200e-003	160.5737
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.8073	159.8073	0.0113	1.6200e-003	160.5737
NaturalGas Mitigated	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323
NaturalGas Unmitigated	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323

Soco Vernon - South Coast Air Basin, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	237184	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323
Total		1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323

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					
Unrefrigerated Warehouse-No Rail	237184	1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323
Total		1.2800e-003	0.0116	9.7700e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6571	12.6571	2.4000e-004	2.3000e-004	12.7323

Soco Vernon - South Coast Air Basin, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	510305	159.8073	0.0113	1.6200e-003	160.5737
Total		159.8073	0.0113	1.6200e-003	160.5737

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	510305	159.8073	0.0113	1.6200e-003	160.5737
Total		159.8073	0.0113	1.6200e-003	160.5737

6.0 Area Detail

6.1 Mitigation Measures Area

Soco Vernon - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003
Unmitigated	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003
Total	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003

Soco Vernon - South Coast Air Basin, Annual

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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003
Total	0.5196	2.0000e-005	1.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5700e-003	3.5700e-003	1.0000e-005	0.0000	3.8000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Soco Vernon - South Coast Air Basin, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	146.0965	1.0928	0.0270	181.4483
Unmitigated	146.0965	1.0928	0.0270	181.4483

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	33.2422 / 0	146.0965	1.0928	0.0270	181.4483
Total		146.0965	1.0928	0.0270	181.4483

Soco Vernon - South Coast Air Basin, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	33.2422 / 0	146.0965	1.0928	0.0270	181.4483
Total		146.0965	1.0928	0.0270	181.4483

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Soco Vernon - South Coast Air Basin, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	135.13	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	135.13	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Soco Vernon - South Coast Air Basin, Annual

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

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

Soco Vernon - South Coast Air Basin, Summer

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

**Soco Vernon
South Coast Air Basin, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	143.75	1000sqft	3.30	143,748.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	13			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	690.4	CH4 Intensity (lb/MWhr)	0.049	N2O Intensity (lb/MWhr)	0.007

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Soco Vernon project, Vernon California

Land Use -

Off-road Equipment - equipment for well installation include one drill rig, one forklift, pressure washer for drill rod decon and one support truck

Off-road Equipment - trenching for SVE pipes 6000 linear feet, 2 feet wide and 1 foot deep. Backfill with imported base. Excavated soil will be transported off site for disposal. Model default horsepower are used.

Off-road Equipment - equipment for drilling 28 ISCO wells include: one drill rig, one pressure washer for drill rod decon, one forklift and concrete cutters and concrete mixer; model default equipment horsepower are used

Trips and VMT - no vendor trip during well installation. Waste hauling distance is 83 miles to Soil Safe Facility in Adelanto, CA. Travel distance for workers is 4.5 miles (from downtown Los Angeles office to the site). 2 round trips for soil base vendor during trenching for SVE. Default vehicle class is used.

Vehicle Trips - 4 daily trips during full-scale ISCO injection; One site visit quarterly for routine O&M and 3 days twice per year for GW monitoring, travel distance is from office to the site (4.5 miles)

Fleet Mix - Used default fleet mix

Soco Vernon - South Coast Air Basin, Summer

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

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.00	8.6030e-003
tblFleetMix	LDA	0.00	0.54
tblFleetMix	LDT1	0.00	0.06
tblFleetMix	LDT2	0.00	0.18
tblFleetMix	LHD1	0.00	0.02
tblFleetMix	LHD2	0.00	6.2270e-003
tblFleetMix	MCY	0.00	0.02
tblFleetMix	MDV	0.00	0.13
tblFleetMix	MH	0.00	3.8450e-003
tblFleetMix	MHD	0.00	0.01
tblFleetMix	OBUS	0.00	8.2900e-004
tblFleetMix	SBUS	0.00	7.4100e-004
tblFleetMix	UBUS	0.00	5.2100e-004
tblOffRoadEquipment	HorsePower	221.00	158.00
tblOffRoadEquipment	HorsePower	221.00	158.00
tblOffRoadEquipment	HorsePower	9.00	97.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	HorsePower	89.00	247.00
tblOffRoadEquipment	HorsePower	13.00	187.00
tblOffRoadEquipment	HorsePower	78.00	247.00
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.56	0.37
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	LoadFactor	0.20	0.40
tblOffRoadEquipment	LoadFactor	0.30	0.41
tblOffRoadEquipment	LoadFactor	0.50	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

Soco Vernon - South Coast Air Basin, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	1.00
tblVehicleTrips	CC_TL	8.40	4.50
tblVehicleTrips	CC_TTP	0.00	95.00
tblVehicleTrips	CNW_TL	6.90	83.00
tblVehicleTrips	CNW_TTP	41.00	5.00
tblVehicleTrips	CW_TTP	59.00	0.00

2.0 Emissions Summary

Soco Vernon - South Coast Air Basin, Summer

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	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335
Energy	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037
Mobile	0.7312	0.8258	7.1014	0.0153	1.5076	0.0128	1.5204	0.4018	0.0120	0.4137		1,559.5203	1,559.5203	0.1005	0.0671	1,582.0157
Total	3.5858	0.8897	7.1696	0.0157	1.5076	0.0177	1.5253	0.4018	0.0169	0.4186		1,636.0011	1,636.0011	0.1021	0.0685	1,658.9529

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	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335
Energy	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037
Mobile	0.7312	0.8258	7.1014	0.0153	1.5076	0.0128	1.5204	0.4018	0.0120	0.4137		1,559.5203	1,559.5203	0.1005	0.0671	1,582.0157
Total	3.5858	0.8897	7.1696	0.0157	1.5076	0.0177	1.5253	0.4018	0.0169	0.4186		1,636.0011	1,636.0011	0.1021	0.0685	1,658.9529

Soco Vernon - South Coast Air Basin, 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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Installation of SVE wells	Trenching	9/1/2021	9/29/2021	5	21	
2	Trenching for SVE pipes	Trenching	9/29/2021	10/12/2021	5	10	
3	Installation of 12 permanent and 16 temporary ISCO injection wells	Trenching	10/6/2021	11/3/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Installation of SVE wells	Bore/Drill Rigs	1	8.00	158	0.38
Installation of SVE wells	Cement and Mortar Mixers	1	8.00	9	0.56
Installation of SVE wells	Forklifts	1	8.00	247	0.40
Installation of SVE wells	Pressure Washers	1	8.00	13	0.30
Trenching for SVE pipes	Trenchers	1	8.00	247	0.40
Installation of 12 permanent and 16 temporary ISCO injection wells	Bore/Drill Rigs	1	8.00	158	0.38
Installation of 12 permanent and 16 temporary ISCO injection wells	Cement and Mortar Mixers	1	8.00	97	0.37

Soco Vernon - South Coast Air Basin, Summer

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

Installation of 12 permanent and 16 temporary ISCO injection wells	Forklifts	1	8.00	247	0.40
Installation of 12 permanent and 16 temporary ISCO injection wells	Pressure Washers	1	8.00	187	0.41

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
Installation of SVE wells	4	1.00	0.00	1.00	4.50	6.90	83.00	LD_Mix	HDT_Mix	HHDT
Trenching for SVE wells	1	3.00	2.00	0.00	4.50	83.00	20.00	LD_Mix	HDT_Mix	HHDT
Installation of 12 permanent and 16 temporary ISCO injection wells	4	1.00	0.00	0.00	4.50	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Installation of SVE wells - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6992	6.8653	6.0164	0.0150		0.2748	0.2748		0.2550	0.2550		1,419.5499	1,419.5499	0.4393		1,430.5323
Total	0.6992	6.8653	6.0164	0.0150		0.2748	0.2748		0.2550	0.2550		1,419.5499	1,419.5499	0.4393		1,430.5323

Soco Vernon - South Coast Air Basin, Summer

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

3.2 Installation of SVE wells - 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	1.0900e-003	0.0338	6.6700e-003	1.2000e-004	3.4500e-003	4.5000e-004	3.9000e-003	9.5000e-004	4.3000e-004	1.3800e-003		13.2187	13.2187	7.8000e-004	2.1000e-003	13.8640
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	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101
Total	3.2500e-003	0.0350	0.0226	1.5000e-004	6.8800e-003	4.8000e-004	7.3500e-003	1.8600e-003	4.5000e-004	2.3100e-003		16.5872	16.5872	9.6000e-004	2.2200e-003	17.2741

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	0.6992	6.8653	6.0164	0.0150		0.2748	0.2748		0.2550	0.2550	0.0000	1,419.5499	1,419.5499	0.4393		1,430.5323
Total	0.6992	6.8653	6.0164	0.0150		0.2748	0.2748		0.2550	0.2550	0.0000	1,419.5499	1,419.5499	0.4393		1,430.5323

Soco Vernon - South Coast Air Basin, Summer

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

3.2 Installation of SVE wells - 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	1.0900e-003	0.0338	6.6700e-003	1.2000e-004	3.4500e-003	4.5000e-004	3.9000e-003	9.5000e-004	4.3000e-004	1.3800e-003		13.2187	13.2187	7.8000e-004	2.1000e-003	13.8640
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	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101
Total	3.2500e-003	0.0350	0.0226	1.5000e-004	6.8800e-003	4.8000e-004	7.3500e-003	1.8600e-003	4.5000e-004	2.3100e-003		16.5872	16.5872	9.6000e-004	2.2200e-003	17.2741

3.3 Trenching for SVE pipes - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6209	7.5981	2.9070	8.5200e-003		0.2994	0.2994		0.2755	0.2755		825.7063	825.7063	0.2671		832.3826
Total	0.6209	7.5981	2.9070	8.5200e-003		0.2994	0.2994		0.2755	0.2755		825.7063	825.7063	0.2671		832.3826

Soco Vernon - South Coast Air Basin, Summer

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

3.3 Trenching for SVE pipes - 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	0.0000
Vendor	0.0476	1.0993	0.2576	4.4100e-003	0.1534	0.0208	0.1742	0.0441	0.0199	0.0640		475.1706	475.1706	0.0178	0.0685	496.0180
Worker	6.4700e-003	3.5800e-003	0.0478	1.0000e-004	0.0103	8.0000e-005	0.0104	2.7300e-003	7.0000e-005	2.8000e-003		10.1055	10.1055	5.4000e-004	3.7000e-004	10.2302
Total	0.0541	1.1029	0.3053	4.5100e-003	0.1637	0.0209	0.1846	0.0468	0.0200	0.0668		485.2761	485.2761	0.0183	0.0688	506.2482

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	0.6209	7.5981	2.9070	8.5200e-003		0.2994	0.2994		0.2755	0.2755	0.0000	825.7063	825.7063	0.2671		832.3826
Total	0.6209	7.5981	2.9070	8.5200e-003		0.2994	0.2994		0.2755	0.2755	0.0000	825.7063	825.7063	0.2671		832.3826

Soco Vernon - South Coast Air Basin, Summer

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

3.3 Trenching for SVE pipes - 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	0.0000
Vendor	0.0476	1.0993	0.2576	4.4100e-003	0.1534	0.0208	0.1742	0.0441	0.0199	0.0640		475.1706	475.1706	0.0178	0.0685	496.0180
Worker	6.4700e-003	3.5800e-003	0.0478	1.0000e-004	0.0103	8.0000e-005	0.0104	2.7300e-003	7.0000e-005	2.8000e-003		10.1055	10.1055	5.4000e-004	3.7000e-004	10.2302
Total	0.0541	1.1029	0.3053	4.5100e-003	0.1637	0.0209	0.1846	0.0468	0.0200	0.0668		485.2761	485.2761	0.0183	0.0688	506.2482

3.4 Installation of 12 permanent and 16 temporary ISCO injection wells - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7294	6.5500	6.7985	0.0219		0.2588	0.2588		0.2391	0.2391		2,098.4130	2,098.4130	0.4410		2,109.4367
Total	0.7294	6.5500	6.7985	0.0219		0.2588	0.2588		0.2391	0.2391		2,098.4130	2,098.4130	0.4410		2,109.4367

Soco Vernon - South Coast Air Basin, Summer

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

3.4 Installation of 12 permanent and 16 temporary ISCO injection wells - 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	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	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101
Total	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101

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	0.7294	6.5500	6.7985	0.0219		0.2588	0.2588		0.2391	0.2391	0.0000	2,098.4130	2,098.4130	0.4410		2,109.4367
Total	0.7294	6.5500	6.7985	0.0219		0.2588	0.2588		0.2391	0.2391	0.0000	2,098.4130	2,098.4130	0.4410		2,109.4367

Soco Vernon - South Coast Air Basin, Summer

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

3.4 Installation of 12 permanent and 16 temporary ISCO injection wells - 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	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	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101
Total	2.1600e-003	1.1900e-003	0.0159	3.0000e-005	3.4300e-003	3.0000e-005	3.4500e-003	9.1000e-004	2.0000e-005	9.3000e-004		3.3685	3.3685	1.8000e-004	1.2000e-004	3.4101

Soco Vernon - South Coast Air Basin, 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	0.7312	0.8258	7.1014	0.0153	1.5076	0.0128	1.5204	0.4018	0.0120	0.4137		1,559.5203	1,559.5203	0.1005	0.0671	1,582.0157
Unmitigated	0.7312	0.8258	7.1014	0.0153	1.5076	0.0128	1.5204	0.4018	0.0120	0.4137		1,559.5203	1,559.5203	0.1005	0.0671	1,582.0157

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	250.13	250.13	250.13	715,555	715,555
Total	250.13	250.13	250.13	715,555	715,555

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
Unrefrigerated Warehouse-No	16.60	4.50	83.00	0.00	95.00	5.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.544368	0.059978	0.184244	0.130791	0.023854	0.006227	0.012011	0.008603	0.000829	0.000521	0.023988	0.000741	0.003845

Soco Vernon - South Coast Air Basin, 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	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037
NaturalGas Unmitigated	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037

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					
Unrefrigerated Warehouse-No Rail	649.82	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037
Total		7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037

Soco Vernon - South Coast Air Basin, 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					
Unrefrigerated Warehouse-No Rail	0.64982	7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037
Total		7.0100e-003	0.0637	0.0535	3.8000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003		76.4494	76.4494	1.4700e-003	1.4000e-003	76.9037

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	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335
Unmitigated	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335

Soco Vernon - South Coast Air Basin, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3700e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335
Total	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335

Soco Vernon - South Coast Air Basin, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3700e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335
Total	2.8476	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0315	0.0315	8.0000e-005		0.0335

7.0 Water Detail

7.1 Mitigation Measures Water

Soco Vernon - South Coast Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
