

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Summer

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

**Phase III A-2 Transmission Main
Riverside-Salton Sea County, Summer**

1.0 Project Characteristics

1.1 Land Usage

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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2023
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	189.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - engineers input
- Off-road Equipment - engineer input
- Off-road Equipment -
- Off-road Equipment - engineer inputs
- Off-road Equipment - engineer inputs
- Grading - engineer inputs
- Trips and VMT - engineer inputs
- Area Coating - no new paved areas
- Landscape Equipment - no new maintenance
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 403.1 specific to the Coachella Valley

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Area Mitigation - SCAQMD rules for architectural coating.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	600	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/19/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	12/13/2022	9/16/2022
tblConstructionPhase	PhaseStartDate	7/16/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	12/7/2022	7/11/2022
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

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tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	9.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00

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tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00

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					
2022	1.5975	14.0298	19.4530	0.0338	0.4806	0.7268	1.2073	0.1099	0.6721	0.7821	0.0000	3,230.2185	3,230.2185	0.9143	0.0193	3,256.8805
Maximum	1.5975	14.0298	19.4530	0.0338	0.4806	0.7268	1.2073	0.1099	0.6721	0.7821	0.0000	3,230.2185	3,230.2185	0.9143	0.0193	3,256.8805

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.5975	14.0298	19.4530	0.0338	0.4023	0.7268	1.1290	0.0993	0.6721	0.7715	0.0000	3,230.2185	3,230.2185	0.9143	0.0193	3,256.8804
Maximum	1.5975	14.0298	19.4530	0.0338	0.4023	0.7268	1.1290	0.0993	0.6721	0.7715	0.0000	3,230.2185	3,230.2185	0.9143	0.0193	3,256.8804

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6400e-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
Total	3.6400e-003	1.0000e-005	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005	0.0000	2.3300e-003

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	3.6400e-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
Total	3.6400e-003	1.0000e-005	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005	0.0000	2.3300e-003

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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	Trenching	Grading	7/1/2022	7/20/2022	5	14	
2	Restoration	Paving	7/11/2022	9/16/2022	5	50	
3	HDD	Grading	7/21/2022	8/17/2022	5	20	
4	Jack-bore	Grading	8/18/2022	9/14/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.23

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
HDD	Graders	0	0.00	187	0.41
Restoration	Cement and Mortar Mixers	4	6.00	9	0.56
Jack-bore	Graders	0	0.00	187	0.41
HDD	Rubber Tired Dozers	0	0.00	247	0.40
Jack-bore	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Graders	0	0.00	187	0.41
HDD	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Restoration	Pavers	1	7.00	130	0.42
Restoration	Rollers	1	7.00	80	0.38
Jack-bore	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Forklifts	1	8.00	89	0.20
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Restoration	Tractors/Loaders/Backhoes	1	7.00	97	0.37
HDD	Bore/Drill Rigs	1	8.00	221	0.50
HDD	Excavators	1	8.00	158	0.38
HDD	Forklifts	1	8.00	89	0.20
Jack-bore	Bore/Drill Rigs	1	8.00	221	0.50
Jack-bore	Excavators	1	8.00	158	0.38
Jack-bore	Forklifts	1	8.00	89	0.20

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
HDD	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Jack-bore	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	1.00	9.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Restoration	7	18.00	1.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1136	0.0000	0.1136	0.0123	0.0000	0.0123			0.0000			0.0000
Off-Road	0.8117	7.8730	11.1448	0.0161		0.4269	0.4269		0.3928	0.3928		1,555.003 2	1,555.003 2	0.5029		1,567.576 2
Total	0.8117	7.8730	11.1448	0.0161	0.1136	0.4269	0.5406	0.0123	0.3928	0.4051		1,555.003 2	1,555.003 2	0.5029		1,567.576 2

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	2.0300e-003	0.0821	0.0183	3.7000e-004	0.0113	9.5000e-004	0.0122	3.0800e-003	9.1000e-004	4.0000e-003		39.4298	39.4298	5.3000e-004	6.2100e-003	41.2941
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1800e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0510	0.0330	0.5144	1.3100e-003	0.1443	7.2000e-004	0.1450	0.0383	6.6000e-004	0.0389		132.6057	132.6057	3.3200e-003	3.2900e-003	133.6683
Total	0.0546	0.1544	0.5469	1.8500e-003	0.1613	2.2200e-003	0.1636	0.0430	2.1000e-003	0.0451		189.5659	189.5659	4.0400e-003	0.0121	193.2728

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3.2 Trenching - 2022

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					0.0511	0.0000	0.0511	5.5200e-003	0.0000	5.5200e-003			0.0000			0.0000
Off-Road	0.8117	7.8730	11.1448	0.0161		0.4269	0.4269		0.3928	0.3928	0.0000	1,555.003 2	1,555.003 2	0.5029		1,567.576 2
Total	0.8117	7.8730	11.1448	0.0161	0.0511	0.4269	0.4781	5.5200e-003	0.3928	0.3983	0.0000	1,555.003 2	1,555.003 2	0.5029		1,567.576 2

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	2.0300e-003	0.0821	0.0183	3.7000e-004	0.0108	9.5000e-004	0.0118	2.9800e-003	9.1000e-004	3.8900e-003		39.4298	39.4298	5.3000e-004	6.2100e-003	41.2941
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0510	0.0330	0.5144	1.3100e-003	0.1381	7.2000e-004	0.1388	0.0367	6.6000e-004	0.0374		132.6057	132.6057	3.3200e-003	3.2900e-003	133.6683
Total	0.0546	0.1544	0.5469	1.8500e-003	0.1544	2.2200e-003	0.1567	0.0413	2.1000e-003	0.0434		189.5659	189.5659	4.0400e-003	0.0121	193.2728

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3.3 Restoration - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6590	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

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	1.5400e-003	0.0393	0.0142	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1800e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0706	0.0457	0.7123	1.8200e-003	0.1998	9.9000e-004	0.2008	0.0530	9.2000e-004	0.0539		183.6079	183.6079	4.5900e-003	4.5500e-003	185.0792
Total	0.0722	0.0850	0.7265	1.9900e-003	0.2056	1.5400e-003	0.2071	0.0547	1.4500e-003	0.0561		201.1384	201.1384	4.7800e-003	7.1500e-003	203.3897

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3.3 Restoration - 2022

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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6590	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

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	1.5400e-003	0.0393	0.0142	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0706	0.0457	0.7123	1.8200e-003	0.1911	9.9000e-004	0.1921	0.0509	9.2000e-004	0.0518		183.6079	183.6079	4.5900e-003	4.5500e-003	185.0792
Total	0.0722	0.0850	0.7265	1.9900e-003	0.1967	1.5400e-003	0.1982	0.0525	1.4500e-003	0.0539		201.1384	201.1384	4.7800e-003	7.1500e-003	203.3897

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3.4 HDD - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942		1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0795	0.3198	0.3994	8.5900e-003	0.2942	0.3028		1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.6000e-004	6.3900e-003	1.4200e-003	3.0000e-005	8.8000e-004	7.0000e-005	9.5000e-004	2.4000e-004	7.0000e-005	3.1000e-004		3.0668	3.0668	4.0000e-005	4.8000e-004	3.2118
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1800e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0393	0.0254	0.3957	1.0100e-003	0.1110	5.5000e-004	0.1116	0.0294	5.1000e-004	0.0300		102.0044	102.0044	2.5500e-003	2.5300e-003	102.8218
Total	0.0410	0.0711	0.4114	1.2100e-003	0.1177	1.1700e-003	0.1188	0.0313	1.1100e-003	0.0324		122.6016	122.6016	2.7800e-003	5.6100e-003	124.3440

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Summer

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

3.4 HDD - 2022

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					0.0358	0.0000	0.0358	3.8600e-003	0.0000	3.8600e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0358	0.3198	0.3556	3.8600e-003	0.2942	0.2981	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.6000e-004	6.3900e-003	1.4200e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.2000e-004	2.3000e-004	7.0000e-005	3.0000e-004		3.0668	3.0668	4.0000e-005	4.8000e-004	3.2118
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0393	0.0254	0.3957	1.0100e-003	0.1062	5.5000e-004	0.1067	0.0283	5.1000e-004	0.0288		102.0044	102.0044	2.5500e-003	2.5300e-003	102.8218
Total	0.0410	0.0711	0.4114	1.2100e-003	0.1126	1.1700e-003	0.1138	0.0301	1.1100e-003	0.0312		122.6016	122.6016	2.7800e-003	5.6100e-003	124.3440

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Summer

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

3.5 Jack-bore - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942		1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0795	0.3198	0.3994	8.5900e-003	0.2942	0.3028		1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.6000e-004	6.3900e-003	1.4200e-003	3.0000e-005	8.8000e-004	7.0000e-005	9.5000e-004	2.4000e-004	7.0000e-005	3.1000e-004		3.0668	3.0668	4.0000e-005	4.8000e-004	3.2118
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1800e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0393	0.0254	0.3957	1.0100e-003	0.1110	5.5000e-004	0.1116	0.0294	5.1000e-004	0.0300		102.0044	102.0044	2.5500e-003	2.5300e-003	102.8218
Total	0.0410	0.0711	0.4114	1.2100e-003	0.1177	1.1700e-003	0.1188	0.0313	1.1100e-003	0.0324		122.6016	122.6016	2.7800e-003	5.6100e-003	124.3440

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Summer

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

3.5 Jack-bore - 2022

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					0.0358	0.0000	0.0358	3.8600e-003	0.0000	3.8600e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0358	0.3198	0.3556	3.8600e-003	0.2942	0.2981	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.6000e-004	6.3900e-003	1.4200e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.2000e-004	2.3000e-004	7.0000e-005	3.0000e-004		3.0668	3.0668	4.0000e-005	4.8000e-004	3.2118
Vendor	1.5400e-003	0.0393	0.0142	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5304	17.5304	1.9000e-004	2.6000e-003	18.3104
Worker	0.0393	0.0254	0.3957	1.0100e-003	0.1062	5.5000e-004	0.1067	0.0283	5.1000e-004	0.0288		102.0044	102.0044	2.5500e-003	2.5300e-003	102.8218
Total	0.0410	0.0711	0.4114	1.2100e-003	0.1126	1.1700e-003	0.1138	0.0301	1.1100e-003	0.0312		122.6016	122.6016	2.7800e-003	5.6100e-003	124.3440

Phase III A-2 Transmission Main - Riverside-Salton Sea 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 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 Asphalt Surfaces	13.80	6.20	6.20	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 Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

Phase III A-2 Transmission Main - Riverside-Salton Sea 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 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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase III A-2 Transmission Main - Riverside-Salton Sea 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 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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	3.6400e-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	3.6400e-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

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	0.0000					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
Total	3.6300e-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

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	0.0000					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
Total	3.6300e-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

7.0 Water Detail

7.1 Mitigation Measures Water

Phase III A-2 Transmission Main - Riverside-Salton Sea 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

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

**Phase III A-2 Transmission Main
Riverside-Salton Sea County, Winter**

1.0 Project Characteristics

1.1 Land Usage

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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2023
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	189.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - engineers input
- Off-road Equipment - engineer input
- Off-road Equipment -
- Off-road Equipment - engineer inputs
- Off-road Equipment - engineer inputs
- Grading - engineer inputs
- Trips and VMT - engineer inputs
- Area Coating - no new paved areas
- Landscape Equipment - no new maintenance
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 403.1 specific to the Coachella Valley

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

Area Mitigation - SCAQMD rules for architectural coating.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	600	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/19/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	12/13/2022	9/16/2022
tblConstructionPhase	PhaseStartDate	7/16/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	12/7/2022	7/11/2022
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	9.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00

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					
2022	1.5892	14.0415	19.2224	0.0335	0.4806	0.7268	1.2073	0.1099	0.6722	0.7821	0.0000	3,203.3599	3,203.3599	0.9143	0.0195	3,230.0739
Maximum	1.5892	14.0415	19.2224	0.0335	0.4806	0.7268	1.2073	0.1099	0.6722	0.7821	0.0000	3,203.3599	3,203.3599	0.9143	0.0195	3,230.0739

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.5892	14.0415	19.2224	0.0335	0.4023	0.7268	1.1290	0.0993	0.6722	0.7715	0.0000	3,203.3599	3,203.3599	0.9143	0.0195	3,230.0739
Maximum	1.5892	14.0415	19.2224	0.0335	0.4023	0.7268	1.1290	0.0993	0.6722	0.7715	0.0000	3,203.3599	3,203.3599	0.9143	0.0195	3,230.0739

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	16.29	0.00	6.49	9.66	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	3.6400e-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
Total	3.6400e-003	1.0000e-005	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005	0.0000	2.3300e-003

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	3.6400e-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
Total	3.6400e-003	1.0000e-005	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.1900e-003	2.1900e-003	1.0000e-005	0.0000	2.3300e-003

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	Trenching	Grading	7/1/2022	7/20/2022	5	14	
2	Restoration	Paving	7/11/2022	9/16/2022	5	50	
3	HDD	Grading	7/21/2022	8/17/2022	5	20	
4	Jack-bore	Grading	8/18/2022	9/14/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.23

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
HDD	Graders	0	0.00	187	0.41
Restoration	Cement and Mortar Mixers	4	6.00	9	0.56
Jack-bore	Graders	0	0.00	187	0.41
HDD	Rubber Tired Dozers	0	0.00	247	0.40
Jack-bore	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Graders	0	0.00	187	0.41
HDD	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

Restoration	Pavers	1	7.00	130	0.42
Restoration	Rollers	1	7.00	80	0.38
Jack-bore	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Forklifts	1	8.00	89	0.20
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Restoration	Tractors/Loaders/Backhoes	1	7.00	97	0.37
HDD	Bore/Drill Rigs	1	8.00	221	0.50
HDD	Excavators	1	8.00	158	0.38
HDD	Forklifts	1	8.00	89	0.20
Jack-bore	Bore/Drill Rigs	1	8.00	221	0.50
Jack-bore	Excavators	1	8.00	158	0.38
Jack-bore	Forklifts	1	8.00	89	0.20

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
HDD	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Jack-bore	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	1.00	9.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Restoration	7	18.00	1.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1136	0.0000	0.1136	0.0123	0.0000	0.0123			0.0000			0.0000
Off-Road	0.8117	7.8730	11.1448	0.0161		0.4269	0.4269		0.3928	0.3928		1,555.003 2	1,555.003 2	0.5029		1,567.576 2
Total	0.8117	7.8730	11.1448	0.0161	0.1136	0.4269	0.5406	0.0123	0.3928	0.4051		1,555.003 2	1,555.003 2	0.5029		1,567.576 2

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	1.9400e-003	0.0866	0.0188	3.7000e-004	0.0113	9.6000e-004	0.0122	3.0800e-003	9.1000e-004	4.0000e-003		39.4599	39.4599	5.3000e-004	6.2200e-003	41.3255
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1900e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0476	0.0343	0.4170	1.1900e-003	0.1443	7.2000e-004	0.1450	0.0383	6.6000e-004	0.0389		120.1151	120.1151	3.2900e-003	3.3700e-003	121.2004
Total	0.0511	0.1623	0.4506	1.7300e-003	0.1613	2.2300e-003	0.1636	0.0430	2.1000e-003	0.0451		177.1264	177.1264	4.0100e-003	0.0122	180.8588

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.2 Trenching - 2022

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					0.0511	0.0000	0.0511	5.5200e-003	0.0000	5.5200e-003			0.0000			0.0000
Off-Road	0.8117	7.8730	11.1448	0.0161		0.4269	0.4269		0.3928	0.3928	0.0000	1,555.0032	1,555.0032	0.5029		1,567.5762
Total	0.8117	7.8730	11.1448	0.0161	0.0511	0.4269	0.4781	5.5200e-003	0.3928	0.3983	0.0000	1,555.0032	1,555.0032	0.5029		1,567.5762

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	1.9400e-003	0.0866	0.0188	3.7000e-004	0.0108	9.6000e-004	0.0118	2.9800e-003	9.1000e-004	3.8900e-003		39.4599	39.4599	5.3000e-004	6.2200e-003	41.3255
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0476	0.0343	0.4170	1.1900e-003	0.1381	7.2000e-004	0.1388	0.0367	6.6000e-004	0.0374		120.1151	120.1151	3.2900e-003	3.3700e-003	121.2004
Total	0.0511	0.1623	0.4506	1.7300e-003	0.1544	2.2300e-003	0.1567	0.0413	2.1000e-003	0.0434		177.1264	177.1264	4.0100e-003	0.0122	180.8588

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.3 Restoration - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6590	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

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	1.4700e-003	0.0414	0.0148	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1900e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0660	0.0474	0.5774	1.6500e-003	0.1998	9.9000e-004	0.2008	0.0530	9.2000e-004	0.0539		166.3132	166.3132	4.5600e-003	4.6600e-003	167.8159
Total	0.0674	0.0888	0.5922	1.8200e-003	0.2056	1.5400e-003	0.2071	0.0547	1.4500e-003	0.0561		183.8647	183.8647	4.7500e-003	7.2700e-003	186.1489

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.3 Restoration - 2022

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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0121					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6590	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

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	1.4700e-003	0.0414	0.0148	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0660	0.0474	0.5774	1.6500e-003	0.1911	9.9000e-004	0.1921	0.0509	9.2000e-004	0.0518		166.3132	166.3132	4.5600e-003	4.6600e-003	167.8159
Total	0.0674	0.0888	0.5922	1.8200e-003	0.1967	1.5400e-003	0.1982	0.0525	1.4500e-003	0.0539		183.8647	183.8647	4.7500e-003	7.2700e-003	186.1489

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.4 HDD - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942		1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0795	0.3198	0.3994	8.5900e-003	0.2942	0.3028		1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.5000e-004	6.7400e-003	1.4600e-003	3.0000e-005	8.8000e-004	7.0000e-005	9.5000e-004	2.4000e-004	7.0000e-005	3.1000e-004		3.0691	3.0691	4.0000e-005	4.8000e-004	3.2142
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1900e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0366	0.0264	0.3208	9.1000e-004	0.1110	5.5000e-004	0.1116	0.0294	5.1000e-004	0.0300		92.3962	92.3962	2.5300e-003	2.5900e-003	93.2311
Total	0.0383	0.0745	0.3371	1.1100e-003	0.1177	1.1700e-003	0.1188	0.0313	1.1100e-003	0.0325		113.0168	113.0168	2.7600e-003	5.6800e-003	114.7782

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.4 HDD - 2022

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					0.0358	0.0000	0.0358	3.8600e-003	0.0000	3.8600e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0358	0.3198	0.3556	3.8600e-003	0.2942	0.2981	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.5000e-004	6.7400e-003	1.4600e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.2000e-004	2.3000e-004	7.0000e-005	3.0000e-004		3.0691	3.0691	4.0000e-005	4.8000e-004	3.2142
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0366	0.0264	0.3208	9.1000e-004	0.1062	5.5000e-004	0.1067	0.0283	5.1000e-004	0.0288		92.3962	92.3962	2.5300e-003	2.5900e-003	93.2311
Total	0.0383	0.0745	0.3371	1.1100e-003	0.1126	1.1700e-003	0.1138	0.0301	1.1100e-003	0.0312		113.0168	113.0168	2.7600e-003	5.6800e-003	114.7782

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.5 Jack-bore - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942		1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0795	0.3198	0.3994	8.5900e-003	0.2942	0.3028		1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.5000e-004	6.7400e-003	1.4600e-003	3.0000e-005	8.8000e-004	7.0000e-005	9.5000e-004	2.4000e-004	7.0000e-005	3.1000e-004		3.0691	3.0691	4.0000e-005	4.8000e-004	3.2142
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.7600e-003	5.5000e-004	6.3100e-003	1.6600e-003	5.3000e-004	2.1900e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0366	0.0264	0.3208	9.1000e-004	0.1110	5.5000e-004	0.1116	0.0294	5.1000e-004	0.0300		92.3962	92.3962	2.5300e-003	2.5900e-003	93.2311
Total	0.0383	0.0745	0.3371	1.1100e-003	0.1177	1.1700e-003	0.1188	0.0313	1.1100e-003	0.0325		113.0168	113.0168	2.7600e-003	5.6800e-003	114.7782

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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

3.5 Jack-bore - 2022

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					0.0358	0.0000	0.0358	3.8600e-003	0.0000	3.8600e-003			0.0000			0.0000
Off-Road	0.7075	6.7994	8.7202	0.0193		0.3198	0.3198		0.2942	0.2942	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791
Total	0.7075	6.7994	8.7202	0.0193	0.0358	0.3198	0.3556	3.8600e-003	0.2942	0.2981	0.0000	1,870.6539	1,870.6539	0.6050		1,885.7791

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	1.5000e-004	6.7400e-003	1.4600e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.2000e-004	2.3000e-004	7.0000e-005	3.0000e-004		3.0691	3.0691	4.0000e-005	4.8000e-004	3.2142
Vendor	1.4700e-003	0.0414	0.0148	1.7000e-004	5.5500e-003	5.5000e-004	6.1000e-003	1.6100e-003	5.3000e-004	2.1300e-003		17.5515	17.5515	1.9000e-004	2.6100e-003	18.3329
Worker	0.0366	0.0264	0.3208	9.1000e-004	0.1062	5.5000e-004	0.1067	0.0283	5.1000e-004	0.0288		92.3962	92.3962	2.5300e-003	2.5900e-003	93.2311
Total	0.0383	0.0745	0.3371	1.1100e-003	0.1126	1.1700e-003	0.1138	0.0301	1.1100e-003	0.0312		113.0168	113.0168	2.7600e-003	5.6800e-003	114.7782

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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 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 Asphalt Surfaces	13.80	6.20	6.20	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 Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Winter

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 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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase III A-2 Transmission Main - Riverside-Salton Sea 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	3.6400e-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	3.6400e-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

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	0.0000					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
Total	3.6300e-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

Phase III A-2 Transmission Main - Riverside-Salton Sea 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	0.0000					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
Total	3.6300e-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

7.0 Water Detail

7.1 Mitigation Measures Water

Phase III A-2 Transmission Main - Riverside-Salton Sea 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

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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Annual

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

**Phase III A-2 Transmission Main
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2023
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	189.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - engineers input
- Off-road Equipment - engineer input
- Off-road Equipment -
- Off-road Equipment - engineer inputs
- Off-road Equipment - engineer inputs
- Grading - engineer inputs
- Trips and VMT - engineer inputs
- Area Coating - no new paved areas
- Landscape Equipment - no new maintenance
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403, 403.1 specific to the Coachella Valley

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Annual

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

Area Mitigation - SCAQMD rules for architectural coating.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	600	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDays	5.00	50.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/19/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	12/13/2022	9/16/2022
tblConstructionPhase	PhaseStartDate	7/16/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	12/7/2022	7/11/2022
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

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

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	9.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	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

tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00
tbITripsAndVMT	VendorTripNumber	0.00	1.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0390	0.3439	0.4543	8.6000e-004	0.0109	0.0169	0.0277	2.5200e-003	0.0156	0.0181	0.0000	74.7971	74.7971	0.0212	3.5000e-004	75.4309
Maximum	0.0390	0.3439	0.4543	8.6000e-004	0.0109	0.0169	0.0277	2.5200e-003	0.0156	0.0181	0.0000	74.7971	74.7971	0.0212	3.5000e-004	75.4309

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0390	0.3439	0.4543	8.6000e-004	9.1900e-003	0.0169	0.0261	2.2900e-003	0.0156	0.0179	0.0000	74.7970	74.7970	0.0212	3.5000e-004	75.4308
Maximum	0.0390	0.3439	0.4543	8.6000e-004	9.1900e-003	0.0169	0.0261	2.2900e-003	0.0156	0.0179	0.0000	74.7970	74.7970	0.0212	3.5000e-004	75.4308

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.5000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	0.0000
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

	ROG	NOx	CO	SO2	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	Trenching	Grading	7/1/2022	7/20/2022	5	14	
2	Restoration	Paving	7/11/2022	9/16/2022	5	50	
3	HDD	Grading	7/21/2022	8/17/2022	5	20	

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

4	Jack-bore	Grading	8/18/2022	9/14/2022	5	20
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.23

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
HDD	Graders	0	0.00	187	0.41
Restoration	Cement and Mortar Mixers	4	6.00	9	0.56
Jack-bore	Graders	0	0.00	187	0.41
HDD	Rubber Tired Dozers	0	0.00	247	0.40
Jack-bore	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Graders	0	0.00	187	0.41
HDD	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Restoration	Pavers	1	7.00	130	0.42
Restoration	Rollers	1	7.00	80	0.38
Jack-bore	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Rubber Tired Dozers	0	0.00	247	0.40
Trenching	Excavators	1	8.00	158	0.38
Trenching	Forklifts	1	8.00	89	0.20
Trenching	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Restoration	Tractors/Loaders/Backhoes	1	7.00	97	0.37
HDD	Bore/Drill Rigs	1	8.00	221	0.50
HDD	Excavators	1	8.00	158	0.38
HDD	Forklifts	1	8.00	89	0.20
Jack-bore	Bore/Drill Rigs	1	8.00	221	0.50

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

Jack-bore	Excavators	1	8.00	158	0.38
Jack-bore	Forklifts	1	8.00	89	0.20

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
HDD	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Jack-bore	4	10.00	1.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	1.00	9.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Restoration	7	18.00	1.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Annual

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

3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6800e-003	0.0551	0.0780	1.1000e-004		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	9.8747	9.8747	3.1900e-003	0.0000	9.9546
Total	5.6800e-003	0.0551	0.0780	1.1000e-004	8.0000e-004	2.9900e-003	3.7900e-003	9.0000e-005	2.7500e-003	2.8400e-003	0.0000	9.8747	9.8747	3.1900e-003	0.0000	9.9546

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	6.1000e-004	1.3000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2505	0.2505	0.0000	4.0000e-005	0.2623
Vendor	1.0000e-005	2.9000e-004	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1114	0.1114	0.0000	2.0000e-005	0.1163
Worker	3.2000e-004	2.5000e-004	3.0800e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7806	0.7806	2.0000e-005	2.0000e-005	0.7876
Total	3.4000e-004	1.1500e-003	3.3100e-003	1.0000e-005	1.1100e-003	2.0000e-005	1.1200e-003	2.9000e-004	1.0000e-005	3.2000e-004	0.0000	1.1424	1.1424	2.0000e-005	8.0000e-005	1.1662

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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 Trenching - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6800e-003	0.0551	0.0780	1.1000e-004		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	9.8747	9.8747	3.1900e-003	0.0000	9.9546
Total	5.6800e-003	0.0551	0.0780	1.1000e-004	3.6000e-004	2.9900e-003	3.3500e-003	4.0000e-005	2.7500e-003	2.7900e-003	0.0000	9.8747	9.8747	3.1900e-003	0.0000	9.9546

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	6.1000e-004	1.3000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2505	0.2505	0.0000	4.0000e-005	0.2623
Vendor	1.0000e-005	2.9000e-004	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1114	0.1114	0.0000	2.0000e-005	0.1163
Worker	3.2000e-004	2.5000e-004	3.0800e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7806	0.7806	2.0000e-005	2.0000e-005	0.7876
Total	3.4000e-004	1.1500e-003	3.3100e-003	1.0000e-005	1.0600e-003	2.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	3.0000e-004	0.0000	1.1424	1.1424	2.0000e-005	8.0000e-005	1.1662

Phase III A-2 Transmission Main - Riverside-Salton Sea County, Annual

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

3.3 Restoration - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1479	0.1759	2.8000e-004		7.4000e-003	7.4000e-003		6.9000e-003	6.9000e-003	0.0000	23.4921	23.4921	6.8400e-003	0.0000	23.6632
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0165	0.1479	0.1759	2.8000e-004		7.4000e-003	7.4000e-003		6.9000e-003	6.9000e-003	0.0000	23.4921	23.4921	6.8400e-003	0.0000	23.6632

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	4.0000e-005	1.0300e-003	3.6000e-004	0.0000	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3978	0.3978	0.0000	6.0000e-005	0.4155
Worker	1.5700e-003	1.2200e-003	0.0152	4.0000e-005	4.9100e-003	2.0000e-005	4.9400e-003	1.3000e-003	2.0000e-005	1.3300e-003	0.0000	3.8600	3.8600	1.0000e-004	1.1000e-004	3.8947
Total	1.6100e-003	2.2500e-003	0.0156	4.0000e-005	5.0500e-003	3.0000e-005	5.1000e-003	1.3400e-003	3.0000e-005	1.3800e-003	0.0000	4.2578	4.2578	1.0000e-004	1.7000e-004	4.3102

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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 Restoration - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1479	0.1759	2.8000e-004		7.4000e-003	7.4000e-003		6.9000e-003	6.9000e-003	0.0000	23.4921	23.4921	6.8400e-003	0.0000	23.6632
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0165	0.1479	0.1759	2.8000e-004		7.4000e-003	7.4000e-003		6.9000e-003	6.9000e-003	0.0000	23.4921	23.4921	6.8400e-003	0.0000	23.6632

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	4.0000e-005	1.0300e-003	3.6000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3978	0.3978	0.0000	6.0000e-005	0.4155
Worker	1.5700e-003	1.2200e-003	0.0152	4.0000e-005	4.7000e-003	2.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2800e-003	0.0000	3.8600	3.8600	1.0000e-004	1.1000e-004	3.8947
Total	1.6100e-003	2.2500e-003	0.0156	4.0000e-005	4.8400e-003	3.0000e-005	4.8700e-003	1.2900e-003	3.0000e-005	1.3300e-003	0.0000	4.2578	4.2578	1.0000e-004	1.7000e-004	4.3102

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

3.4 HDD - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0800e-003	0.0680	0.0872	1.9000e-004		3.2000e-003	3.2000e-003		2.9400e-003	2.9400e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075
Total	7.0800e-003	0.0680	0.0872	1.9000e-004	8.0000e-004	3.2000e-003	4.0000e-003	9.0000e-005	2.9400e-003	3.0300e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075

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	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0278	0.0278	0.0000	0.0000	0.0292
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1591	0.1591	0.0000	2.0000e-005	0.1662
Worker	3.5000e-004	2.7000e-004	3.3800e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8578	0.8578	2.0000e-005	2.0000e-005	0.8655
Total	3.7000e-004	7.5000e-004	3.5300e-003	1.0000e-005	1.1600e-003	2.0000e-005	1.1700e-003	3.1000e-004	2.0000e-005	3.1000e-004	0.0000	1.0447	1.0447	2.0000e-005	4.0000e-005	1.0608

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

3.4 HDD - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0800e-003	0.0680	0.0872	1.9000e-004		3.2000e-003	3.2000e-003		2.9400e-003	2.9400e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075
Total	7.0800e-003	0.0680	0.0872	1.9000e-004	3.6000e-004	3.2000e-003	3.5600e-003	4.0000e-005	2.9400e-003	2.9800e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075

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	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0278	0.0278	0.0000	0.0000	0.0292
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	5.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1591	0.1591	0.0000	2.0000e-005	0.1662
Worker	3.5000e-004	2.7000e-004	3.3800e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8578	0.8578	2.0000e-005	2.0000e-005	0.8655
Total	3.7000e-004	7.5000e-004	3.5300e-003	1.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.0000e-004	2.0000e-005	3.0000e-004	0.0000	1.0447	1.0447	2.0000e-005	4.0000e-005	1.0608

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

3.5 Jack-bore - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0800e-003	0.0680	0.0872	1.9000e-004		3.2000e-003	3.2000e-003		2.9400e-003	2.9400e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075
Total	7.0800e-003	0.0680	0.0872	1.9000e-004	8.0000e-004	3.2000e-003	4.0000e-003	9.0000e-005	2.9400e-003	3.0300e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075

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	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0278	0.0278	0.0000	0.0000	0.0292
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1591	0.1591	0.0000	2.0000e-005	0.1662
Worker	3.5000e-004	2.7000e-004	3.3800e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8578	0.8578	2.0000e-005	2.0000e-005	0.8655
Total	3.7000e-004	7.5000e-004	3.5300e-003	1.0000e-005	1.1600e-003	2.0000e-005	1.1700e-003	3.1000e-004	2.0000e-005	3.1000e-004	0.0000	1.0447	1.0447	2.0000e-005	4.0000e-005	1.0608

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

3.5 Jack-bore - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0800e-003	0.0680	0.0872	1.9000e-004		3.2000e-003	3.2000e-003		2.9400e-003	2.9400e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075
Total	7.0800e-003	0.0680	0.0872	1.9000e-004	3.6000e-004	3.2000e-003	3.5600e-003	4.0000e-005	2.9400e-003	2.9800e-003	0.0000	16.9703	16.9703	5.4900e-003	0.0000	17.1075

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	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0278	0.0278	0.0000	0.0000	0.0292
Vendor	2.0000e-005	4.1000e-004	1.4000e-004	0.0000	5.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1591	0.1591	0.0000	2.0000e-005	0.1662
Worker	3.5000e-004	2.7000e-004	3.3800e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8578	0.8578	2.0000e-005	2.0000e-005	0.8655
Total	3.7000e-004	7.5000e-004	3.5300e-003	1.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.0000e-004	2.0000e-005	3.0000e-004	0.0000	1.0447	1.0447	2.0000e-005	4.0000e-005	1.0608

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other 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 Asphalt Surfaces	13.80	6.20	6.20	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 Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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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	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Phase III A-2 Transmission Main - Riverside-Salton Sea County, 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

Phase III A-2 Transmission Main - Riverside-Salton Sea County, 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			
Other Asphalt Surfaces	0	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			
Other Asphalt Surfaces	0	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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Phase III A-2 Transmission Main - Riverside-Salton Sea County, 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
