

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Annual

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

**Santa Margarita River Sandia Creek Drive Fish Passage Project
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	15.00	User Defined Unit	15.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific detail

Construction Phase - Project-specific schedule

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

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Off-road Equipment - Mobilization phase and site prep equipment are assumed to overlap

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Trips and VMT - Project-specific trips

Grading - Project-provided acres graded

Land Use Change - Project-provided data

Sequestration - Project-provided data

Construction Off-road Equipment Mitigation - <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/fugitive-dust-PM-Reduction>

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	NumDays	300.00	55.00
tblConstructionPhase	NumDays	300.00	75.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	44.00
tblFleetMix	HHD	6.1840e-003	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2140e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	5.1640e-003	0.00
tblFleetMix	MHD	8.4930e-003	0.00
tblFleetMix	OBUS	7.1500e-004	0.00
tblFleetMix	SBUS	9.8200e-004	0.00

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tblFleetMix	UBUS	5.5600e-004	0.00
tblLandUse	LotAcreage	0.00	15.00
tblLandUseChange	CO2peracre	0.00	4.31
tblLandUseChange	CO2peracre	0.00	1.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	CO2perTree	0.04	1.40
tblSequestration	NumberOfNewTrees	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	126.00

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tblTripsAndVMT	HaulingTripNumber	0.00	294.00
tblTripsAndVMT	HaulingTripNumber	0.00	217.00
tblTripsAndVMT	HaulingTripNumber	0.00	326.00
tblTripsAndVMT	HaulingTripNumber	0.00	238.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	22.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	44.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00

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tblTripsAndVMT	WorkerTripNumber	20.00	16.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.5916	6.1206	5.5144	0.0118	0.1765	0.2675	0.4439	0.0333	0.2479	0.2811	0.0000	1,037.8823	1,037.8823	0.2831	7.4300e-003	1,047.1746
2023	0.1589	1.5688	1.3756	3.1300e-003	0.0401	0.0669	0.1070	0.0107	0.0623	0.0730	0.0000	276.5798	276.5798	0.0662	2.8600e-003	279.0867
Maximum	0.5916	6.1206	5.5144	0.0118	0.1765	0.2675	0.4439	0.0333	0.2479	0.2811	0.0000	1,037.8823	1,037.8823	0.2831	7.4300e-003	1,047.1746

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	0.5916	6.1206	5.5144	0.0118	0.1215	0.2675	0.3890	0.0264	0.2479	0.2743	0.0000	1,037.8812	1,037.8812	0.2831	7.4300e-003	1,047.1735
2023	0.1589	1.5688	1.3756	3.1300e-003	0.0370	0.0669	0.1039	9.9200e-003	0.0623	0.0723	0.0000	276.5795	276.5795	0.0662	2.8600e-003	279.0864

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Maximum	0.5916	6.1206	5.5144	0.0118	0.1215	0.2675	0.3890	0.0264	0.2479	0.2743	0.0000	1,037.8812	1,037.8812	0.2831	7.4300e-003	1,047.1735
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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	26.79	0.00	10.53	17.36	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	1.1872	1.1872
2	6-1-2022	8-31-2022	2.5822	2.5822
3	9-1-2022	11-30-2022	2.2650	2.2650
4	12-1-2022	2-28-2023	1.7595	1.7595
5	3-1-2023	5-31-2023	0.6051	0.6051
		Highest	2.5822	2.5822

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	14,000.0000
Vegetation Land Change	-22.9500
Total	13,977.0500

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2022	4/29/2022	5	44	
2	Grading/Utilities	Grading	5/1/2022	6/15/2022	5	33	
3	Construction-Substructure	Building Construction	6/1/2022	11/30/2022	5	131	
4	Roadway Construction	Building Construction	7/1/2022	9/15/2022	5	55	
5	Construction-Superstructure	Building Construction	12/1/2022	3/15/2023	5	75	
6	Paving	Paving	3/15/2023	3/30/2023	5	12	
7	Demolition	Demolition	4/1/2023	4/28/2023	5	20	

Acres of Grading (Site Preparation Phase): 165

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 –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	1	4.00	78	0.48
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Generator Sets	2	8.00	84	0.74
Site Preparation	Graders	2	6.00	187	0.41
Site Preparation	Plate Compactors	1	4.00	8	0.43
Site Preparation	Scrapers	4	6.00	367	0.48

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Site Preparation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading/Utilities	Excavators	2	8.00	158	0.38
Grading/Utilities	Forklifts	1	4.00	89	0.20
Grading/Utilities	Generator Sets	1	8.00	84	0.74
Grading/Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction-Substructure	Bore/Drill Rigs	1	8.00	221	0.50
Construction-Substructure	Cranes	2	8.00	231	0.29
Construction-Substructure	Excavators	4	6.00	158	0.38
Construction-Substructure	Generator Sets	1	4.00	84	0.74
Construction-Substructure	Graders	2	6.00	187	0.41
Construction-Substructure	Rollers	8	8.00	80	0.38
Construction-Substructure	Scrapers	4	4.00	367	0.48
Construction-Substructure	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Roadway Construction	Generator Sets	1	8.00	84	0.74
Roadway Construction	Pavers	2	8.00	130	0.42
Roadway Construction	Rollers	1	8.00	80	0.38
Roadway Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction-Superstructure	Air Compressors	2	4.00	78	0.48
Construction-Superstructure	Cranes	2	8.00	231	0.29
Construction-Superstructure	Forklifts	1	4.00	89	0.20
Construction-Superstructure	Generator Sets	1	8.00	84	0.74
Construction-Superstructure	Graders	2	6.00	187	0.41
Construction-Superstructure	Plate Compactors	1	4.00	8	0.43
Construction-Superstructure	Pressure Washers	1	4.00	13	0.30
Construction-Superstructure	Rollers	3	8.00	80	0.38
Construction-Superstructure	Scrapers	4	4.00	367	0.48
Construction-Superstructure	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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Paving	Pavers	1	7.00	130	0.42
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Cranes	1	6.00	231	0.29
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	13	30.00	2.00	126.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities	5	12.00	2.00	294.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Substructure	25	22.00	2.00	217.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Roadway Construction	6	14.00	2.00	0.00	25.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Superstructure	21	44.00	0.00	326.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	2.00	0.00	0.00	25.00	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	8	16.00	0.00	238.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0875	0.0000	0.0875	9.4500e-003	0.0000	9.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0919	0.9761	0.7429	1.6600e-003		0.0399	0.0399		0.0373	0.0373	0.0000	145.1552	145.1552	0.0390	0.0000	146.1313
Total	0.0919	0.9761	0.7429	1.6600e-003	0.0875	0.0399	0.1273	9.4500e-003	0.0373	0.0467	0.0000	145.1552	145.1552	0.0390	0.0000	146.1313

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	2.8000e-004	0.0106	2.5000e-003	4.0000e-005	1.0800e-003	1.0000e-004	1.1800e-003	3.0000e-004	9.0000e-005	3.9000e-004	0.0000	3.9489	3.9489	1.9000e-004	6.3000e-004	4.1406
Vendor	1.6000e-004	4.1600e-003	1.1600e-003	2.0000e-005	5.6000e-004	5.0000e-005	6.1000e-004	1.6000e-004	5.0000e-005	2.1000e-004	0.0000	1.6985	1.6985	5.0000e-005	2.5000e-004	1.7731
Worker	3.3100e-003	2.7400e-003	0.0328	1.1000e-004	0.0122	7.0000e-005	0.0123	3.2500e-003	6.0000e-005	3.3100e-003	0.0000	9.8547	9.8547	2.1000e-004	2.4000e-004	9.9316
Total	3.7500e-003	0.0175	0.0365	1.7000e-004	0.0139	2.2000e-004	0.0141	3.7100e-003	2.0000e-004	3.9100e-003	0.0000	15.5022	15.5022	4.5000e-004	1.1200e-003	15.8453

Mitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0394	0.0000	0.0394	4.2500e-003	0.0000	4.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0919	0.9761	0.7429	1.6600e-003		0.0399	0.0399		0.0373	0.0373	0.0000	145.1550	145.1550	0.0390	0.0000	146.1311
Total	0.0919	0.9761	0.7429	1.6600e-003	0.0394	0.0399	0.0792	4.2500e-003	0.0373	0.0415	0.0000	145.1550	145.1550	0.0390	0.0000	146.1311

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	2.8000e-004	0.0106	2.5000e-003	4.0000e-005	1.0100e-003	1.0000e-004	1.1000e-003	2.8000e-004	9.0000e-005	3.7000e-004	0.0000	3.9489	3.9489	4.9000e-004	6.3000e-004	4.1406
Vendor	1.6000e-004	4.1600e-003	1.1600e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004	0.0000	1.6985	1.6985	5.0000e-005	2.5000e-004	1.7731
Worker	3.3100e-003	2.7400e-003	0.0328	1.1000e-004	0.0113	7.0000e-005	0.0114	3.0200e-003	6.0000e-005	3.0800e-003	0.0000	9.8547	9.8547	2.1000e-004	2.4000e-004	9.9316
Total	3.7500e-003	0.0175	0.0365	1.7000e-004	0.0128	2.2000e-004	0.0130	3.4500e-003	2.0000e-004	3.6500e-003	0.0000	15.5022	15.5022	4.5000e-004	1.1200e-003	15.8453

3.3 Grading/Utilities - 2022

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1433	0.2145	3.4000e-004		7.3200e-003	7.3200e-003		6.9300e-003	6.9300e-003	0.0000	29.9119	29.9119	7.1000e-003	0.0000	30.0895
Total	0.0158	0.1433	0.2145	3.4000e-004	0.0000	7.3200e-003	7.3200e-003	0.0000	6.9300e-003	6.9300e-003	0.0000	29.9119	29.9119	7.1000e-003	0.0000	30.0895

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	6.5000e-004	0.0248	5.8400e-003	9.0000e-005	2.5200e-003	2.3000e-004	2.7500e-003	6.9000e-004	2.2000e-004	9.1000e-004	0.0000	9.2141	9.2141	4.4000e-004	1.4600e-003	9.6614
Vendor	1.2000e-004	3.1200e-003	8.7000e-004	1.0000e-005	4.2000e-004	4.0000e-005	4.6000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.2739	1.2739	4.0000e-005	1.8000e-004	1.3298
Worker	9.9000e-004	8.2000e-004	9.8500e-003	3.0000e-005	3.6700e-003	2.0000e-005	3.6900e-003	9.8000e-004	2.0000e-005	9.9000e-004	0.0000	2.9564	2.9564	6.0000e-005	7.0000e-005	2.9795
Total	1.7600e-003	0.0287	0.0166	1.3000e-004	6.6100e-003	2.9000e-004	6.9000e-003	1.7900e-003	2.7000e-004	2.0600e-003	0.0000	13.4445	13.4445	5.4000e-004	1.7100e-003	13.9707

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1433	0.2145	3.4000e-004		7.3200e-003	7.3200e-003		6.9300e-003	6.9300e-003	0.0000	29.9119	29.9119	7.1000e-003	0.0000	30.0894
Total	0.0158	0.1433	0.2145	3.4000e-004	0.0000	7.3200e-003	7.3200e-003	0.0000	6.9300e-003	6.9300e-003	0.0000	29.9119	29.9119	7.1000e-003	0.0000	30.0894

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	6.5000e-004	0.0248	5.8400e-003	9.0000e-005	2.3500e-003	2.3000e-004	2.5800e-003	6.5000e-004	2.2000e-004	8.7000e-004	0.0000	9.2141	9.2141	4.4000e-004	1.4600e-003	9.6614
Vendor	1.2000e-004	3.1200e-003	8.7000e-004	1.0000e-005	3.9000e-004	4.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.2739	1.2739	4.0000e-005	1.8000e-004	1.3298
Worker	9.9000e-004	8.2000e-004	9.8500e-003	3.0000e-005	3.3900e-003	2.0000e-005	3.4100e-003	9.1000e-004	2.0000e-005	9.2000e-004	0.0000	2.9564	2.9564	6.0000e-005	7.0000e-005	2.9795
Total	1.7600e-003	0.0287	0.0166	1.3000e-004	6.1300e-003	2.9000e-004	6.4200e-003	1.6700e-003	2.7000e-004	1.9400e-003	0.0000	13.4445	13.4445	5.4000e-004	1.7100e-003	13.9707

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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 Construction-Substructure - 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	0.3736	3.9811	3.4506	7.0800e-003		0.1768	0.1768		0.1630	0.1630	0.0000	621.2964	621.2964	0.1958	0.0000	626.1922
Total	0.3736	3.9811	3.4506	7.0800e-003		0.1768	0.1768		0.1630	0.1630	0.0000	621.2964	621.2964	0.1958	0.0000	626.1922

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	4.8000e-004	0.0183	4.3100e-003	7.0000e-005	1.8600e-003	1.7000e-004	2.0300e-003	5.1000e-004	1.6000e-004	6.7000e-004	0.0000	6.8009	6.8009	3.3000e-004	1.0800e-003	7.1310
Vendor	8.2000e-004	0.0217	5.3900e-003	9.0000e-005	3.0900e-003	2.7000e-004	3.3500e-003	8.9000e-004	2.5000e-004	1.1500e-003	0.0000	9.2214	9.2214	2.8000e-004	1.3300e-003	9.6255
Worker	0.0100	8.6900e-003	0.1050	3.6000e-004	0.0406	2.2000e-004	0.0408	0.0108	2.0000e-004	0.0110	0.0000	32.5696	32.5696	6.0000e-004	7.5000e-004	32.8094
Total	0.0113	0.0486	0.1147	5.2000e-004	0.0456	6.6000e-004	0.0462	0.0122	6.1000e-004	0.0128	0.0000	48.5920	48.5920	1.2100e-003	3.1600e-003	49.5659

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

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	0.3736	3.9811	3.4506	7.0800e-003		0.1768	0.1768		0.1630	0.1630	0.0000	621.2957	621.2957	0.1958	0.0000	626.1915
Total	0.3736	3.9811	3.4506	7.0800e-003		0.1768	0.1768		0.1630	0.1630	0.0000	621.2957	621.2957	0.1958	0.0000	626.1915

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	4.8000e-004	0.0183	4.3100e-003	7.0000e-005	1.7300e-003	1.7000e-004	1.9000e-003	4.8000e-004	1.6000e-004	6.4000e-004	0.0000	6.8009	6.8009	3.3000e-004	1.0800e-003	7.1310
Vendor	8.2000e-004	0.0217	5.3900e-003	9.0000e-005	2.8900e-003	2.7000e-004	3.1600e-003	8.4000e-004	2.5000e-004	1.1000e-003	0.0000	9.2214	9.2214	2.8000e-004	1.3300e-003	9.6255
Worker	0.0100	8.6900e-003	0.1050	3.6000e-004	0.0375	2.2000e-004	0.0377	0.0100	2.0000e-004	0.0102	0.0000	32.5696	32.5696	6.0000e-004	7.5000e-004	32.8094
Total	0.0113	0.0486	0.1147	5.2000e-004	0.0421	6.6000e-004	0.0427	0.0113	6.1000e-004	0.0120	0.0000	48.5920	48.5920	1.2100e-003	3.1600e-003	49.5659

3.5 Roadway Construction - 2022

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

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	0.0341	0.3356	0.4340	6.8000e-004		0.0172	0.0172		0.0162	0.0162	0.0000	59.6280	59.6280	0.0150	0.0000	60.0029
Total	0.0341	0.3356	0.4340	6.8000e-004		0.0172	0.0172		0.0162	0.0162	0.0000	59.6280	59.6280	0.0150	0.0000	60.0029

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	3.4000e-004	9.1000e-003	2.2600e-003	4.0000e-005	1.3000e-003	1.1000e-004	4.4100e-003	3.7000e-004	1.1000e-004	4.8000e-004	0.0000	3.8716	3.8716	1.2000e-004	5.6000e-004	4.0412
Worker	1.9300e-003	1.6000e-003	0.0192	6.0000e-005	7.1400e-003	4.0000e-005	7.1800e-003	1.9000e-003	4.0000e-005	1.9300e-003	0.0000	5.7486	5.7486	1.2000e-004	1.4000e-004	5.7934
Total	2.2700e-003	0.0107	0.0214	1.0000e-004	8.4400e-003	1.5000e-004	8.5900e-003	2.2700e-003	1.5000e-004	2.4100e-003	0.0000	9.6202	9.6202	2.4000e-004	7.0000e-004	9.8347

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3356	0.4340	6.8000e-004		0.0172	0.0172		0.0162	0.0162	0.0000	59.6279	59.6279	0.0150	0.0000	60.0029
Total	0.0341	0.3356	0.4340	6.8000e-004		0.0172	0.0172		0.0162	0.0162	0.0000	59.6279	59.6279	0.0150	0.0000	60.0029

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	3.4000e-004	9.1000e-003	2.2600e-003	4.0000e-005	1.2100e-003	1.1000e-004	1.3300e-003	3.5000e-004	1.1000e-004	4.6000e-004	0.0000	3.8716	3.8716	1.2000e-004	5.6000e-004	4.0412
Worker	1.9300e-003	1.6000e-003	0.0192	6.0000e-005	6.5800e-003	4.0000e-005	6.6200e-003	1.7600e-003	4.0000e-005	1.8000e-003	0.0000	5.7486	5.7486	1.2000e-004	1.4000e-004	5.7934
Total	2.2700e-003	0.0107	0.0214	1.0000e-004	7.7900e-003	1.5000e-004	7.9500e-003	2.1100e-003	1.5000e-004	2.2600e-003	0.0000	9.6202	9.6202	2.4000e-004	7.0000e-004	9.8347

3.6 Construction-Superstructure - 2022

Unmitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0535	0.5680	0.4460	9.2000e-004		0.0248	0.0248		0.0231	0.0231	0.0000	80.7956	80.7956	0.0234	0.0000	81.3797
Total	0.0535	0.5680	0.4460	9.2000e-004		0.0248	0.0248		0.0231	0.0231	0.0000	80.7956	80.7956	0.0234	0.0000	81.3797

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	2.1000e-004	8.0500e-003	1.9000e-003	3.0000e-005	8.2000e-004	7.0000e-005	8.9000e-004	2.2000e-004	7.0000e-005	3.0000e-004	0.0000	2.9970	2.9970	1.4000e-004	4.8000e-004	3.1425
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	3.3700e-003	2.9200e-003	0.0353	1.2000e-004	0.0136	7.0000e-005	0.0137	3.6200e-003	7.0000e-005	3.6900e-003	0.0000	10.9394	10.9394	2.0000e-004	2.5000e-004	11.0200
Total	3.5800e-003	0.0110	0.0372	1.5000e-004	0.0145	1.4000e-004	0.0146	3.8400e-003	1.4000e-004	3.9900e-003	0.0000	13.9364	13.9364	3.4000e-004	7.3000e-004	14.1624

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0535	0.5680	0.4460	9.2000e-004		0.0248	0.0248		0.0231	0.0231	0.0000	80.7955	80.7955	0.0234	0.0000	81.3796
Total	0.0535	0.5680	0.4460	9.2000e-004		0.0248	0.0248		0.0231	0.0231	0.0000	80.7955	80.7955	0.0234	0.0000	81.3796

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	2.1000e-004	8.0500e-003	1.9000e-003	3.0000e-005	7.6000e-004	7.0000e-005	8.4000e-004	2.1000e-004	7.0000e-005	2.8000e-004	0.0000	2.9970	2.9970	1.4000e-004	4.8000e-004	3.1425
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	3.3700e-003	2.9200e-003	0.0353	1.2000e-004	0.0126	7.0000e-005	0.0127	3.3600e-003	7.0000e-005	3.4300e-003	0.0000	10.9394	10.9394	2.0000e-004	2.5000e-004	11.0200
Total	3.5800e-003	0.0110	0.0372	1.5000e-004	0.0133	1.4000e-004	0.0135	3.5700e-003	1.4000e-004	3.7100e-003	0.0000	13.9364	13.9364	3.4000e-004	7.3000e-004	14.1624

3.6 Construction-Superstructure - 2023

Unmitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1212	1.2550	1.0559	2.2300e-003		0.0537	0.0537		0.0499	0.0499	0.0000	194.6528	194.6528	0.0562	0.0000	196.0577
Total	0.1212	1.2550	1.0559	2.2300e-003		0.0537	0.0537		0.0499	0.0499	0.0000	194.6528	194.6528	0.0562	0.0000	196.0577

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	2.5000e-004	0.0156	4.1600e-003	7.0000e-005	1.9700e-003	1.3000e-004	2.1000e-003	5.4000e-004	1.2000e-004	6.6000e-004	0.0000	6.9129	6.9129	3.5000e-004	1.1000e-003	7.2492
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	7.6400e-003	6.2200e-003	0.0783	2.8000e-004	0.0329	1.7000e-004	0.0330	8.7300e-003	1.5000e-004	8.8800e-003	0.0000	25.5209	25.5209	4.3000e-004	5.6000e-004	25.6997
Total	7.8900e-003	0.0219	0.0824	3.5000e-004	0.0348	3.0000e-004	0.0351	9.2700e-003	2.7000e-004	9.5400e-003	0.0000	32.4338	32.4338	7.8000e-004	1.6600e-003	32.9489

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1212	1.2550	1.0559	2.2300e-003		0.0537	0.0537		0.0499	0.0499	0.0000	194.6526	194.6526	0.0562	0.0000	196.0575
Total	0.1212	1.2550	1.0559	2.2300e-003		0.0537	0.0537		0.0499	0.0499	0.0000	194.6526	194.6526	0.0562	0.0000	196.0575

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	2.5000e-004	0.0156	4.1600e-003	7.0000e-005	1.8400e-003	1.3000e-004	1.9700e-003	5.1000e-004	1.2000e-004	6.3000e-004	0.0000	6.9129	6.9129	3.5000e-004	1.1000e-003	7.2492
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	7.6400e-003	6.2200e-003	0.0783	2.8000e-004	0.0303	1.7000e-004	0.0305	8.1000e-003	1.5000e-004	8.2600e-003	0.0000	25.5209	25.5209	4.3000e-004	5.6000e-004	25.6997
Total	7.8900e-003	0.0219	0.0824	3.5000e-004	0.0322	3.0000e-004	0.0324	8.6100e-003	2.7000e-004	8.8900e-003	0.0000	32.4338	32.4338	7.8000e-004	1.6600e-003	32.9489

3.7 Paving - 2023

Unmitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0100e-003	9.8800e-003	0.0151	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	2.1681	2.1681	7.0000e-004	0.0000	2.1856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0100e-003	9.8800e-003	0.0151	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	2.1681	2.1681	7.0000e-004	0.0000	2.1856

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	6.0000e-005	4.0000e-005	5.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1735	0.1735	0.0000	0.0000	0.1748
Total	6.0000e-005	4.0000e-005	5.5000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1735	0.1735	0.0000	0.0000	0.1748

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0100e-003	9.8800e-003	0.0151	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	2.1681	2.1681	7.0000e-004	0.0000	2.1856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0100e-003	9.8800e-003	0.0151	2.0000e-005		4.6000e-004	4.6000e-004		4.3000e-004	4.3000e-004	0.0000	2.1681	2.1681	7.0000e-004	0.0000	2.1856

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	6.0000e-005	4.0000e-005	5.5000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1735	0.1735	0.0000	0.0000	0.1748
Total	6.0000e-005	4.0000e-005	5.5000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1735	0.1735	0.0000	0.0000	0.1748

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

3.8 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0278	0.2653	0.2099	4.3000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	37.6964	37.6964	8.1400e-003	0.0000	37.8998
Total	0.0278	0.2653	0.2099	4.3000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	37.6964	37.6964	8.1400e-003	0.0000	37.8998

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	2.6000e-004	0.0162	4.3000e-003	7.0000e-005	2.0400e-003	1.3000e-004	2.1700e-003	5.6000e-004	1.3000e-004	6.9000e-004	0.0000	7.1417	7.1417	3.6000e-004	1.1400e-003	7.4892
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	7.5000e-004	5.9000e-004	7.3500e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.3135	2.3135	5.0000e-005	5.0000e-005	2.3307
Total	1.0100e-003	0.0167	0.0117	1.0000e-004	5.0100e-003	1.5000e-004	5.1500e-003	1.3500e-003	1.4000e-004	1.4900e-003	0.0000	9.4552	9.4552	4.1000e-004	1.1900e-003	9.8199

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

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	0.0278	0.2653	0.2099	4.3000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	37.6963	37.6963	8.1400e-003	0.0000	37.8998
Total	0.0278	0.2653	0.2099	4.3000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	37.6963	37.6963	8.1400e-003	0.0000	37.8998

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	2.6000e-004	0.0162	4.3000e-003	7.0000e-005	1.9000e-003	1.3000e-004	2.0300e-003	5.3000e-004	1.3000e-004	6.5000e-004	0.0000	7.1417	7.1417	3.6000e-004	1.1400e-003	7.4892
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	7.5000e-004	5.9000e-004	7.3500e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7500e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.3135	2.3135	5.0000e-005	5.0000e-005	2.3307
Total	1.0100e-003	0.0167	0.0117	1.0000e-004	4.6400e-003	1.5000e-004	4.7800e-003	1.2600e-003	1.4000e-004	1.4000e-003	0.0000	9.4552	9.4552	4.1000e-004	1.1900e-003	9.8199

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Annual

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

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	13,977.0500	0.0000	0.0000	13,977.0500

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	10 / 5	-21.5500	0.0000	0.0000	-21.5500
Wetlands	2 / 1	-1.4000	0.0000	0.0000	-1.4000
Total		-22.9500	0.0000	0.0000	-22.9500

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

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	500	14,000.0000 0	0.0000	0.0000	14,000.0000
Total		14,000.0000 0	0.0000	0.0000	14,000.0000

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Santa Margarita River Sandia Creek Drive Fish Passage Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	15.00	User Defined Unit	15.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project specific detail
- Construction Phase - Project-specific schedule
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Project specific equipment
- Off-road Equipment - Mobilization phase and site prep equipment are assumed to overlap

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Trips and VMT - Project-specific trips

Grading - Project-provided acres graded

Land Use Change - Project-provided data

Sequestration - Project-provided data

Construction Off-road Equipment Mitigation - <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/fugitive-dust-PM-Reduction>

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	NumDays	300.00	55.00
tblConstructionPhase	NumDays	300.00	75.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	44.00
tblFleetMix	HHD	6.1840e-003	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2140e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	5.1640e-003	0.00
tblFleetMix	MHD	8.4930e-003	0.00
tblFleetMix	OBUS	7.1500e-004	0.00
tblFleetMix	SBUS	9.8200e-004	0.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

tblFleetMix	UBUS	5.5600e-004	0.00
tblLandUse	LotAcreage	0.00	15.00
tblLandUseChange	CO2peracre	0.00	4.31
tblLandUseChange	CO2peracre	0.00	1.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	CO2perTree	0.04	1.40
tblSequestration	NumberOfNewTrees	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	126.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

tblTripsAndVMT	HaulingTripNumber	0.00	294.00
tblTripsAndVMT	HaulingTripNumber	0.00	217.00
tblTripsAndVMT	HaulingTripNumber	0.00	326.00
tblTripsAndVMT	HaulingTripNumber	0.00	238.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	22.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	44.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

tblTripsAndVMT	WorkerTripNumber	20.00	16.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	7.1950	74.0638	71.2044	0.1455	4.6230	3.3404	6.4440	0.6018	3.0912	3.3658	0.0000	14,207.1505	14,207.1505	3.9268	0.1671	14,352.6120
2023	5.0402	49.7938	45.8615	0.1021	1.3847	2.1158	3.5005	0.3678	1.9655	2.3333	0.0000	9,930.4520	9,930.4520	2.4998	0.1307	10,013.3235
Maximum	7.1950	74.0638	71.2044	0.1455	4.6230	3.3404	6.4440	0.6018	3.0912	3.3658	0.0000	14,207.1505	14,207.1505	3.9268	0.1671	14,352.6120

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	7.1950	74.0638	71.2044	0.1455	2.3860	3.3404	4.2883	0.3534	3.0912	3.3465	0.0000	14,207.1505	14,207.1505	3.9268	0.1671	14,352.6120
2023	5.0402	49.7938	45.8615	0.1021	1.2771	2.1158	3.3929	0.3414	1.9655	2.3069	0.0000	9,930.4520	9,930.4520	2.4998	0.1307	10,013.3235

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Maximum	7.1950	74.0638	71.2044	0.1455	2.3860	3.3404	4.2883	0.3534	3.0912	3.3465	0.0000	14,207.1505	14,207.1505	3.9268	0.1671	14,352.6120
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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	39.03	0.00	22.76	28.34	0.00	0.80	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	Site Preparation	Site Preparation	3/1/2022	4/29/2022	5	44	
2	Grading/Utilities	Grading	5/1/2022	6/15/2022	5	33	
3	Construction-Substructure	Building Construction	6/1/2022	11/30/2022	5	131	
4	Roadway Construction	Building Construction	7/1/2022	9/15/2022	5	55	
5	Construction-Superstructure	Building Construction	12/1/2022	3/15/2023	5	75	
6	Paving	Paving	3/15/2023	3/30/2023	5	12	
7	Demolition	Demolition	4/1/2023	4/28/2023	5	20	

Acres of Grading (Site Preparation Phase): 165

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 –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Site Preparation	Air Compressors	1	4.00	78	0.48
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Generator Sets	2	8.00	84	0.74
Site Preparation	Graders	2	6.00	187	0.41
Site Preparation	Plate Compactors	1	4.00	8	0.43
Site Preparation	Scrapers	4	6.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading/Utilities	Excavators	2	8.00	158	0.38
Grading/Utilities	Forklifts	1	4.00	89	0.20
Grading/Utilities	Generator Sets	1	8.00	84	0.74
Grading/Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction-Substructure	Bore/Drill Rigs	1	8.00	22	0.50
Construction-Substructure	Cranes	2	8.00	23	0.29
Construction-Substructure	Excavators	4	6.00	158	0.38
Construction-Substructure	Generator Sets	1	4.00	84	0.74
Construction-Substructure	Graders	2	6.00	187	0.41
Construction-Substructure	Rollers	8	8.00	80	0.38
Construction-Substructure	Scrapers	4	4.00	367	0.48
Construction-Substructure	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Roadway Construction	Generator Sets	1	8.00	84	0.74
Roadway Construction	Pavers	2	8.00	130	0.42
Roadway Construction	Rollers	1	8.00	80	0.38
Roadway Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction-Superstructure	Air Compressors	2	4.00	78	0.48
Construction-Superstructure	Cranes	2	8.00	23	0.29
Construction-Superstructure	Forklifts	1	4.00	89	0.20
Construction-Superstructure	Generator Sets	1	8.00	84	0.74

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Construction-Superstructure	Graders	2	6.00	187	0.41
Construction-Superstructure	Plate Compactors	1	4.00	8	0.43
Construction-Superstructure	Pressure Washers	1	4.00	13	0.30
Construction-Superstructure	Rollers	3	8.00	80	0.38
Construction-Superstructure	Scrapers	4	4.00	367	0.48
Construction-Superstructure	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Pavers	1	7.00	130	0.42
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Cranes	1	6.00	231	0.29
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	13	30.00	2.00	126.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities	5	12.00	2.00	294.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Substructure	25	22.00	2.00	217.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Roadway Construction	6	14.00	2.00	0.00	25.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Superstructure	21	44.00	0.00	326.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	2.00	0.00	0.00	25.00	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	8	16.00	0.00	238.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9769	0.0000	3.9769	0.4294	0.0000	0.4294			0.0000			0.0000
Off-Road	4.1749	44.3686	33.7679	0.0755		1.8114	1.8114		1.6947	1.6947		7,273.0108	7,273.0108	1.9562		7,321.9153
Total	4.1749	44.3686	33.7679	0.0755	3.9769	1.8114	5.7882	0.4294	1.6947	2.1241		7,273.0108	7,273.0108	1.9562		7,321.9153

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	0.0128	0.4651	0.1131	1.8000e-003	0.0501	4.4800e-003	0.0546	0.0137	4.2900e-003	0.0180		197.8256	197.8256	9.5100e-003	0.0314	207.4282
Vendor	7.3400e-003	0.1826	0.0523	7.9000e-004	0.0259	2.1900e-003	0.0281	7.4600e-003	2.1000e-003	9.5600e-003		85.0956	85.0956	2.5800e-003	0.0123	88.8282
Worker	0.1484	0.1128	1.6216	5.1300e-003	0.5701	3.0300e-003	0.5731	0.1512	2.7900e-003	0.1540		518.2950	518.2950	0.0104	0.0113	521.9205
Total	0.1686	0.7604	1.7869	7.7200e-003	0.6461	9.7000e-003	0.6558	0.1724	9.1800e-003	0.1815		801.2162	801.2162	0.0225	0.0550	818.1769

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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					1.7896	0.0000	1.7896	0.1932	0.0000	0.1932			0.0000			0.0000
Off-Road	4.1749	44.3686	33.7679	0.0755		1.8114	1.8114		1.6947	1.6947	0.0000	7,273.0108	7,273.0108	1.9562		7,321.9153
Total	4.1749	44.3686	33.7679	0.0755	1.7896	1.8114	3.6009	0.1932	1.6947	1.8879	0.0000	7,273.0108	7,273.0108	1.9562		7,321.9153

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	0.0128	0.4651	0.1131	1.8000e-003	0.0467	4.4800e-003	0.0512	0.0129	4.2900e-003	0.0172		197.8256	197.8256	9.5100e-003	0.0314	207.4282
Vendor	7.3400e-003	0.1826	0.0523	7.9000e-004	0.0243	2.1900e-003	0.0265	7.0500e-003	2.1000e-003	9.1500e-003		85.0956	85.0956	2.5800e-003	0.0123	88.8282
Worker	0.1484	0.1128	1.6216	5.1300e-003	0.5255	3.0300e-003	0.5285	0.1402	2.7900e-003	0.1430		518.2950	518.2950	0.0104	0.0113	521.9205

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Total	0.1686	0.7604	1.7869	7.7200e-003	0.5964	9.7000e-003	0.6061	0.1602	9.1800e-003	0.1693		801.2162	801.2162	0.0225	0.0550	818.1769
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3.3 Grading/Utilities - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9563	8.6853	13.0010	0.0208		0.4438	0.4438		0.4201	0.4201		1,998.3195	1,998.3195	0.4744		2,010.1794
Total	0.9563	8.6853	13.0010	0.0208	0.0000	0.4438	0.4438	0.0000	0.4201	0.4201		1,998.3195	1,998.3195	0.4744		2,010.1794

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	0.0399	1.4469	0.3517	5.5900e-003	0.1558	0.0139	0.1698	0.0427	0.0133	0.0560		615.4574	615.4574	0.0296	0.0978	645.3321
Vendor	7.3400e-003	0.1826	0.0523	7.9000e-004	0.0259	2.1900e-003	0.0281	7.4600e-003	2.1000e-003	9.5600e-003		85.0956	85.0956	2.5800e-003	0.0123	88.8282

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Worker	0.0594	0.0451	0.6486	2.0500e-003	0.2280	1.2100e-003	0.2293	0.0605	1.1200e-003	0.0616		207.3180	207.3180	4.1700e-003	4.5200e-003	208.7682
Total	0.1066	1.6746	1.0526	8.4300e-003	0.4098	0.0173	0.4271	0.1106	0.0166	0.1272		907.8710	907.8710	0.0364	0.1146	942.9285

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9563	8.6853	13.0010	0.0208		0.4438	0.4438		0.4201	0.4201	0.0000	1,998.3195	1,998.3195	0.4744		2,010.1794
Total	0.9563	8.6853	13.0010	0.0208	0.0000	0.4438	0.4438	0.0000	0.4201	0.4201	0.0000	1,998.3195	1,998.3195	0.4744		2,010.1794

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	0.0399	1.4469	0.3517	5.5900e-003	0.1452	0.0139	0.1592	0.0401	0.0133	0.0534		615.4574	615.4574	0.0296	0.0978	645.3321

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Vendor	7.3400e-003	0.1826	0.0523	7.9000e-004	0.0243	2.1900e-003	0.0265	7.0500e-003	2.1000e-003	9.1500e-003		85.0956	85.0956	2.5800e-003	0.0123	88.8282
Worker	0.0594	0.0451	0.6486	2.0500e-003	0.2102	1.2100e-003	0.2114	0.0561	1.1200e-003	0.0572		207.3180	207.3180	4.1700e-003	4.5200e-003	208.7682
Total	0.1066	1.6746	1.0526	8.4300e-003	0.3797	0.0173	0.3970	0.1032	0.0166	0.1198		907.8710	907.8710	0.0364	0.1146	942.9285

3.4 Construction-Substructure - 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	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889		10,455.9090	10,455.9090	3.2957		10,538.3016
Total	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889		10,455.9090	10,455.9090	3.2957		10,538.3016

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	7.4200e-003	0.2690	0.0654	1.0400e-003	0.0290	2.5900e-003	0.0316	7.9400e-003	2.4800e-003	0.0104		114.4335	114.4335	5.5000e-003	0.0182	119.9881

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Vendor	0.0125	0.3190	0.0822	1.4400e-003	0.0481	4.0500e-003	0.0522	0.0138	3.8800e-003	0.0177		155.1799	155.1799	4.6900e-003	0.0224	161.9744
Worker	0.1497	0.1202	1.7563	5.6900e-003	0.6353	3.3300e-003	0.6387	0.1685	3.0600e-003	0.1715		575.4376	575.4376	0.0103	0.0119	579.2400
Total	0.1696	0.7082	1.9039	8.1700e-003	0.7124	9.9700e-003	0.7224	0.1902	9.4200e-003	0.1996		845.0510	845.0510	0.0204	0.0525	861.2026

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	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889	0.0000	10,455.9090	10,455.9090	3.2957		10,538.3016
Total	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889	0.0000	10,455.9090	10,455.9090	3.2957		10,538.3016

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	7.4200e-003	0.2690	0.0654	1.0400e-003	0.0270	2.5900e-003	0.0296	7.4600e-003	2.4800e-003	9.9400e-003		114.4335	114.4335	5.5000e-003	0.0182	119.9881

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Vendor	0.0125	0.3190	0.0822	1.4400e-003	0.0450	4.0500e-003	0.0491	0.0131	3.8800e-003	0.0170		155.1799	155.1799	4.6900e-003	0.0224	161.9744
Worker	0.1497	0.1202	1.7563	5.6900e-003	0.5856	3.3300e-003	0.5889	0.1562	3.0600e-003	0.1593		575.4376	575.4376	0.0103	0.0119	579.2400
Total	0.1696	0.7082	1.9039	8.1700e-003	0.6576	9.9700e-003	0.6676	0.1768	9.4200e-003	0.1862		845.0510	845.0510	0.0204	0.0525	861.2026

3.5 Roadway Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877		2,390.1322	2,390.1322	0.6011		2,405.1600
Total	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877		2,390.1322	2,390.1322	0.6011		2,405.1600

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

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Vendor	0.0125	0.3190	0.0822	1.4400e-003	0.0481	4.0500e-003	0.0522	0.0138	3.8800e-003	0.0177		155.1799	155.1799	4.6900e-003	0.0224	161.9744
Worker	0.0693	0.0526	0.7567	2.3900e-003	0.2660	1.4200e-003	0.2675	0.0705	1.3000e-003	0.0719		241.8710	241.8710	4.8700e-003	5.2700e-003	243.5629
Total	0.0818	0.3717	0.8389	3.8300e-003	0.3142	5.4700e-003	0.3196	0.0844	5.1800e-003	0.0896		397.0509	397.0509	9.5600e-003	0.0277	405.5373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877	0.0000	2,390.1322	2,390.1322	0.6011		2,405.1600
Total	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877	0.0000	2,390.1322	2,390.1322	0.6011		2,405.1600

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

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Vendor	0.0125	0.3190	0.0822	1.4400e-003	0.0450	4.0500e-003	0.0491	0.0131	3.8800e-003	0.0170		155.1799	155.1799	4.6900e-003	0.0224	161.9744
Worker	0.0693	0.0526	0.7567	2.3900e-003	0.2452	1.4200e-003	0.2466	0.0654	1.3000e-003	0.0667		241.8710	241.8710	4.8700e-003	5.2700e-003	243.5629
Total	0.0818	0.3717	0.8389	3.8300e-003	0.2902	5.4700e-003	0.2957	0.0785	5.1800e-003	0.0837		397.0509	397.0509	9.5600e-003	0.0277	405.5373

3.6 Construction-Superstructure - 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	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985		8,096.5329	8,096.5329	2.3416		8,155.0720
Total	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985		8,096.5329	8,096.5329	2.3416		8,155.0720

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	0.0195	0.7060	0.1716	2.7300e-003	0.0760	6.8000e-003	0.0828	0.0208	6.5100e-003	0.0273		300.2762	300.2762	0.0144	0.0477	314.8518

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	0.2994	0.2403	3.5126	0.0114	1.2707	6.6500e-003	1.2773	0.3369	6.1300e-003	0.3430		1,150.8752	1,150.8752	0.0205	0.0238	1,158.4800
Total	0.3189	0.9463	3.6842	0.0141	1.3467	0.0135	1.3602	0.3577	0.0126	0.3704		1,451.1514	1,451.1514	0.0349	0.0715	1,473.3318

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	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985	0.0000	8,096.5329	8,096.5329	2.3416		8,155.0720
Total	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985	0.0000	8,096.5329	8,096.5329	2.3416		8,155.0720

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	0.0195	0.7060	0.1716	2.7300e-003	0.0709	6.8000e-003	0.0777	0.0196	6.5100e-003	0.0261		300.2762	300.2762	0.0144	0.0477	314.8518

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	0.2994	0.2403	3.5126	0.0114	1.1712	6.6500e-003	1.1779	0.3125	6.1300e-003	0.3186		1,150.8752	1,150.8752	0.0205	0.0238	1,158.4800
Total	0.3189	0.9463	3.6842	0.0141	1.2421	0.0135	1.2555	0.3321	0.0126	0.3447		1,451.1514	1,451.1514	0.0349	0.0715	1,473.3318

3.6 Construction-Superstructure - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836		8,096.9066	8,096.9066	2.3375		8,155.3435
Total	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836		8,096.9066	8,096.9066	2.3375		8,155.3435

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	9.8400e-003	0.5686	0.1562	2.6000e-003	0.0760	4.8300e-003	0.0809	0.0208	4.6200e-003	0.0255		287.4352	287.4352	0.0145	0.0457	301.4188

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	0.2810	0.2128	3.2366	0.0110	1.2707	6.3100e-003	1.2770	0.3369	5.8100e-003	0.3427		1,114.3389	1,114.3389	0.0184	0.0220	1,121.3462
Total	0.2908	0.7814	3.3928	0.0136	1.3467	0.0111	1.3578	0.3577	0.0104	0.3682		1,401.7741	1,401.7741	0.0329	0.0677	1,422.7650

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	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836	0.0000	8,096.9065	8,096.9065	2.3375		8,155.3435
Total	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836	0.0000	8,096.9065	8,096.9065	2.3375		8,155.3435

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	9.8400e-003	0.5686	0.1562	2.6000e-003	0.0709	4.8300e-003	0.0757	0.0196	4.6200e-003	0.0242		287.4352	287.4352	0.0145	0.0457	301.4188

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	0.2810	0.2128	3.2366	0.0110	1.1712	6.3100e-003	1.1775	0.3125	5.8100e-003	0.3183		1,114.3389	1,114.3389	0.0184	0.0220	1,121.3462
Total	0.2908	0.7814	3.3928	0.0136	1.2421	0.0111	1.2532	0.3321	0.0104	0.3425		1,401.7741	1,401.7741	0.0329	0.0677	1,422.7650

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713		398.3152	398.3152	0.1288		401.5358
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713		398.3152	398.3152	0.1288		401.5358

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					

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	9.2800e-003	6.6700e-003	0.0997	3.3000e-004	0.0380	1.9000e-004	0.0382	0.0101	1.8000e-004	0.0103		33.4562	33.4562	6.3000e-004	7.0000e-004	33.6793
Total	9.2800e-003	6.6700e-003	0.0997	3.3000e-004	0.0380	1.9000e-004	0.0382	0.0101	1.8000e-004	0.0103		33.4562	33.4562	6.3000e-004	7.0000e-004	33.6793

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	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713	0.0000	398.3152	398.3152	0.1288		401.5358
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713	0.0000	398.3152	398.3152	0.1288		401.5358

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

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	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	9.2800e-003	6.6700e-003	0.0997	3.3000e-004	0.0350	1.9000e-004	0.0352	9.3500e-003	1.8000e-004	9.5200e-003		33.4562	33.4562	6.3000e-004	7.0000e-004	33.6793
Total	9.2800e-003	6.6700e-003	0.0997	3.3000e-004	0.0350	1.9000e-004	0.0352	9.3500e-003	1.8000e-004	9.5200e-003		33.4562	33.4562	6.3000e-004	7.0000e-004	33.6793

3.8 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578		4,155.3112	4,155.3112	0.8971		4,177.7385
Total	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578		4,155.3112	4,155.3112	0.8971		4,177.7385

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Category	lb/day										lb/day					
Hauling	0.0270	1.5567	0.4276	7.1200e-003	0.2081	0.0132	0.2214	0.0571	0.0126	0.0697		786.9200	786.9200	0.0397	0.1251	825.2034
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0742	0.0534	0.7980	2.6500e-003	0.3040	1.5300e-003	0.3056	0.0806	1.4100e-003	0.0820		267.6493	267.6493	5.0100e-003	5.5700e-003	269.4344
Total	0.1012	1.6101	1.2256	9.7700e-003	0.5122	0.0147	0.5269	0.1377	0.0141	0.1517		1,054.5694	1,054.5694	0.0447	0.1307	1,094.6378

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	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578	0.0000	4,155.3112	4,155.3112	0.8971		4,177.7385
Total	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578	0.0000	4,155.3112	4,155.3112	0.8971		4,177.7385

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Summer

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

Category	lb/day										lb/day					
	Hauling	0.0270	1.5567	0.4276	7.1200e-003	0.1940	0.0132	0.2072	0.0536	0.0126	0.0662		786.9200	786.9200	0.0397	0.1251
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0742	0.0534	0.7980	2.6500e-003	0.2802	1.5300e-003	0.2818	0.0748	1.4100e-003	0.0762		267.6493	267.6493	5.0100e-003	5.5700e-003	269.4344
Total	0.1012	1.6101	1.2256	9.7700e-003	0.4742	0.0147	0.4890	0.1284	0.0141	0.1424		1,054.5694	1,054.5694	0.0447	0.1307	1,094.6378

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Santa Margarita River Sandia Creek Drive Fish Passage Project

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	15.00	User Defined Unit	15.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific detail

Construction Phase - Project-specific schedule

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Mobilization phase and site prep equipment are assumed to overlap

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Trips and VMT - Project-specific trips

Grading - Project-provided acres graded

Land Use Change - Project-provided data

Sequestration - Project-provided data

Construction Off-road Equipment Mitigation - <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/fugitive-dust-PM-Reduction>

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	131.00
tblConstructionPhase	NumDays	300.00	55.00
tblConstructionPhase	NumDays	300.00	75.00
tblConstructionPhase	NumDays	30.00	33.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	44.00
tblFleetMix	HHD	6.1840e-003	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2140e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	5.1640e-003	0.00
tblFleetMix	MHD	8.4930e-003	0.00
tblFleetMix	OBUS	7.1500e-004	0.00
tblFleetMix	SBUS	9.8200e-004	0.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

tblFleetMix	UBUS	5.5600e-004	0.00
tblLandUse	LotAcreage	0.00	15.00
tblLandUseChange	CO2peracre	0.00	4.31
tblLandUseChange	CO2peracre	0.00	1.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	CO2perTree	0.04	1.40
tblSequestration	NumberOfNewTrees	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	126.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

tblTripsAndVMT	HaulingTripNumber	0.00	294.00
tblTripsAndVMT	HaulingTripNumber	0.00	217.00
tblTripsAndVMT	HaulingTripNumber	0.00	326.00
tblTripsAndVMT	HaulingTripNumber	0.00	238.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	26.00
tblTripsAndVMT	VendorTripLength	6.60	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	38.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	22.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	44.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

tblTripsAndVMT	WorkerTripNumber	20.00	16.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	7.2278	74.1180	70.9651	0.1450	4.6230	3.3405	6.4440	0.6018	3.0912	3.3659	0.0000	14,163.6786	14,163.6786	3.9266	0.1685	14,309.5417
2023	5.0864	49.8435	45.5339	0.1014	1.3847	2.1159	3.5006	0.3678	1.9655	2.3333	0.0000	9,866.5918	9,866.5918	2.4994	0.1313	9,949.9907
Maximum	7.2278	74.1180	70.9651	0.1450	4.6230	3.3405	6.4440	0.6018	3.0912	3.3659	0.0000	14,163.6786	14,163.6786	3.9266	0.1685	14,309.5417

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	7.2278	74.1180	70.9651	0.1450	2.3860	3.3405	4.2883	0.3534	3.0912	3.3465	0.0000	14,163.6785	14,163.6785	3.9266	0.1685	14,309.5417
2023	5.0864	49.8435	45.5339	0.1014	1.2771	2.1159	3.3929	0.3414	1.9655	2.3069	0.0000	9,866.5918	9,866.5918	2.4994	0.1313	9,949.9907

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Maximum	7.2278	74.1180	70.9651	0.1450	2.3860	3.3405	4.2883	0.3534	3.0912	3.3465	0.0000	14,163.6785	14,163.6785	3.9266	0.1685	14,309.5417
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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	39.03	0.00	22.76	28.34	0.00	0.80	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	Site Preparation	Site Preparation	3/1/2022	4/29/2022	5	44	
2	Grading/Utilities	Grading	5/1/2022	6/15/2022	5	33	
3	Construction-Substructure	Building Construction	6/1/2022	11/30/2022	5	131	
4	Roadway Construction	Building Construction	7/1/2022	9/15/2022	5	55	
5	Construction-Superstructure	Building Construction	12/1/2022	3/15/2023	5	75	
6	Paving	Paving	3/15/2023	3/30/2023	5	12	
7	Demolition	Demolition	4/1/2023	4/28/2023	5	20	

Acres of Grading (Site Preparation Phase): 165

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 –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Site Preparation	Air Compressors	1	4.00	78	0.48
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Generator Sets	2	8.00	84	0.74
Site Preparation	Graders	2	6.00	187	0.41
Site Preparation	Plate Compactors	1	4.00	8	0.43
Site Preparation	Scrapers	4	6.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading/Utilities	Excavators	2	8.00	158	0.38
Grading/Utilities	Forklifts	1	4.00	89	0.20
Grading/Utilities	Generator Sets	1	8.00	84	0.74
Grading/Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction-Substructure	Bore/Drill Rigs	1	8.00	22	0.50
Construction-Substructure	Cranes	2	8.00	23	0.29
Construction-Substructure	Excavators	4	6.00	158	0.38
Construction-Substructure	Generator Sets	1	4.00	84	0.74
Construction-Substructure	Graders	2	6.00	187	0.41
Construction-Substructure	Rollers	8	8.00	80	0.38
Construction-Substructure	Scrapers	4	4.00	367	0.48
Construction-Substructure	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Roadway Construction	Generator Sets	1	8.00	84	0.74
Roadway Construction	Pavers	2	8.00	130	0.42
Roadway Construction	Rollers	1	8.00	80	0.38
Roadway Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction-Superstructure	Air Compressors	2	4.00	78	0.48
Construction-Superstructure	Cranes	2	8.00	23	0.29
Construction-Superstructure	Forklifts	1	4.00	89	0.20
Construction-Superstructure	Generator Sets	1	8.00	84	0.74

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Construction-Superstructure	Graders	2	6.00	187	0.41
Construction-Superstructure	Plate Compactors	1	4.00	8	0.43
Construction-Superstructure	Pressure Washers	1	4.00	13	0.30
Construction-Superstructure	Rollers	3	8.00	80	0.38
Construction-Superstructure	Scrapers	4	4.00	367	0.48
Construction-Superstructure	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Pavers	1	7.00	130	0.42
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Cranes	1	6.00	231	0.29
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	13	30.00	2.00	126.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities	5	12.00	2.00	294.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Substructure	25	22.00	2.00	217.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Roadway Construction	6	14.00	2.00	0.00	25.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Construction-Superstructure	21	44.00	0.00	326.00	38.00	26.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	2.00	0.00	0.00	25.00	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	8	16.00	0.00	238.00	25.00	14.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9769	0.0000	3.9769	0.4294	0.0000	0.4294			0.0000			0.0000
Off-Road	4.1749	44.3686	33.7679	0.0755		1.8114	1.8114		1.6947	1.6947		7,273.0108	7,273.0108	1.9562		7,321.9153
Total	4.1749	44.3686	33.7679	0.0755	3.9769	1.8114	5.7882	0.4294	1.6947	2.1241		7,273.0108	7,273.0108	1.9562		7,321.9153

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	0.0125	0.4826	0.1148	1.8000e-003	0.0501	4.4900e-003	0.0546	0.0137	4.2900e-003	0.0180		197.9094	197.9094	9.4900e-003	0.0314	207.5159
Vendor	7.3500e-003	0.1893	0.0532	7.9000e-004	0.0259	2.2000e-003	0.0281	7.4600e-003	2.1000e-003	9.5600e-003		85.1189	85.1189	2.5700e-003	0.0123	88.8554
Worker	0.1685	0.1266	1.4781	4.8400e-003	0.5701	3.0300e-003	0.5731	0.1512	2.7900e-003	0.1540		489.3494	489.3494	0.0105	0.0122	493.2412
Total	0.1883	0.7984	1.6461	7.4300e-003	0.6461	9.7200e-003	0.6558	0.1724	9.1800e-003	0.1815		772.3776	772.3776	0.0226	0.0559	789.6124

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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					1.7896	0.0000	1.7896	0.1932	0.0000	0.1932			0.0000			0.0000
Off-Road	4.1749	44.3686	33.7679	0.0755		1.8114	1.8114		1.6947	1.6947	0.0000	7,273.0108	7,273.0108	1.9562		7,321.9153
Total	4.1749	44.3686	33.7679	0.0755	1.7896	1.8114	3.6009	0.1932	1.6947	1.8879	0.0000	7,273.0108	7,273.0108	1.9562		7,321.9153

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	0.0125	0.4826	0.1148	1.8000e-003	0.0467	4.4900e-003	0.0512	0.0129	4.2900e-003	0.0172		197.9094	197.9094	9.4900e-003	0.0314	207.5159
Vendor	7.3500e-003	0.1893	0.0532	7.9000e-004	0.0243	2.2000e-003	0.0265	7.0500e-003	2.1000e-003	9.1500e-003		85.1189	85.1189	2.5700e-003	0.0123	88.8554
Worker	0.1685	0.1266	1.4781	4.8400e-003	0.5255	3.0300e-003	0.5285	0.1402	2.7900e-003	0.1430		489.3494	489.3494	0.0105	0.0122	493.2412

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Total	0.1883	0.7984	1.6461	7.4300e-003	0.5964	9.7200e-003	0.6061	0.1602	9.1800e-003	0.1693		772.3776	772.3776	0.0226	0.0559	789.6124
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3.3 Grading/Utilities - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9563	8.6853	13.0010	0.0208		0.4438	0.4438		0.4201	0.4201		1,998.3195	1,998.3195	0.4744		2,010.1794
Total	0.9563	8.6853	13.0010	0.0208	0.0000	0.4438	0.4438	0.0000	0.4201	0.4201		1,998.3195	1,998.3195	0.4744		2,010.1794

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	0.0389	1.5013	0.3571	5.5900e-003	0.1558	0.0140	0.1698	0.0427	0.0134	0.0561		615.7180	615.7180	0.0295	0.0978	645.6049
Vendor	7.3500e-003	0.1893	0.0532	7.9000e-004	0.0259	2.2000e-003	0.0281	7.4600e-003	2.1000e-003	9.5600e-003		85.1189	85.1189	2.5700e-003	0.0123	88.8554

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Worker	0.0674	0.0507	0.5912	1.9400e-003	0.2280	1.2100e-003	0.2293	0.0605	1.1200e-003	0.0616		195.7397	195.7397	4.2000e-003	4.8700e-003	197.2965
Total	0.1137	1.7412	1.0015	8.3200e-003	0.4098	0.0174	0.4272	0.1106	0.0166	0.1272		896.5766	896.5766	0.0363	0.1150	931.7568

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9563	8.6853	13.0010	0.0208		0.4438	0.4438		0.4201	0.4201	0.0000	1,998.3195	1,998.3195	0.4744		2,010.1794
Total	0.9563	8.6853	13.0010	0.0208	0.0000	0.4438	0.4438	0.0000	0.4201	0.4201	0.0000	1,998.3195	1,998.3195	0.4744		2,010.1794

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	0.0389	1.5013	0.3571	5.5900e-003	0.1452	0.0140	0.1592	0.0401	0.0134	0.0535		615.7180	615.7180	0.0295	0.0978	645.6049

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Vendor	7.3500e-003	0.1893	0.0532	7.9000e-004	0.0243	2.2000e-003	0.0265	7.0500e-003	2.1000e-003	9.1500e-003		85.1189	85.1189	2.5700e-003	0.0123	88.8554
Worker	0.0674	0.0507	0.5912	1.9400e-003	0.2102	1.2100e-003	0.2114	0.0561	1.1200e-003	0.0572		195.7397	195.7397	4.2000e-003	4.8700e-003	197.2965
Total	0.1137	1.7412	1.0015	8.3200e-003	0.3797	0.0174	0.3970	0.1032	0.0166	0.1198		896.5766	896.5766	0.0363	0.1150	931.7568

3.4 Construction-Substructure - 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	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889		10,455.9090	10,455.9090	3.2957		10,538.3016
Total	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889		10,455.9090	10,455.9090	3.2957		10,538.3016

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	7.2300e-003	0.2791	0.0664	1.0400e-003	0.0290	2.6000e-003	0.0316	7.9400e-003	2.4800e-003	0.0104		114.4819	114.4819	5.4900e-003	0.0182	120.0389

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Vendor	0.0126	0.3305	0.0828	1.4400e-003	0.0481	4.0600e-003	0.0522	0.0138	3.8800e-003	0.0177		155.2027	155.2027	4.6800e-003	0.0224	162.0032
Worker	0.1731	0.1348	1.5818	5.3700e-003	0.6353	3.3300e-003	0.6387	0.1685	3.0600e-003	0.1715		543.1889	543.1889	0.0101	0.0128	547.2620
Total	0.1929	0.7445	1.7310	7.8500e-003	0.7124	9.9900e-003	0.7224	0.1902	9.4200e-003	0.1997		812.8734	812.8734	0.0202	0.0535	829.3040

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	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889	0.0000	10,455.9090	10,455.9090	3.2957		10,538.3016
Total	5.7042	60.7807	52.6816	0.1081		2.6990	2.6990		2.4889	2.4889	0.0000	10,455.9090	10,455.9090	3.2957		10,538.3016

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	7.2300e-003	0.2791	0.0664	1.0400e-003	0.0270	2.6000e-003	0.0296	7.4600e-003	2.4800e-003	9.9400e-003		114.4819	114.4819	5.4900e-003	0.0182	120.0389

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Vendor	0.0126	0.3305	0.0828	1.4400e-003	0.0450	4.0600e-003	0.0491	0.0131	3.8800e-003	0.0170		155.2027	155.2027	4.6800e-003	0.0224	162.0032
Worker	0.1731	0.1348	1.5818	5.3700e-003	0.5856	3.3300e-003	0.5889	0.1562	3.0600e-003	0.1593		543.1889	543.1889	0.0101	0.0128	547.2620
Total	0.1929	0.7445	1.7310	7.8500e-003	0.6576	9.9900e-003	0.6676	0.1768	9.4200e-003	0.1862		812.8734	812.8734	0.0202	0.0535	829.3040

3.5 Roadway Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877		2,390.1322	2,390.1322	0.6011		2,405.1600
Total	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877		2,390.1322	2,390.1322	0.6011		2,405.1600

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

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Vendor	0.0126	0.3305	0.0828	1.4400e-003	0.0481	4.0600e-003	0.0522	0.0138	3.8800e-003	0.0177		155.2027	155.2027	4.6800e-003	0.0224	162.0032
Worker	0.0786	0.0591	0.6898	2.2600e-003	0.2660	1.4200e-003	0.2675	0.0705	1.3000e-003	0.0719		228.3630	228.3630	4.8900e-003	5.6800e-003	230.1792
Total	0.0912	0.3896	0.7725	3.7000e-003	0.3142	5.4800e-003	0.3196	0.0844	5.1800e-003	0.0896		383.5657	383.5657	9.5700e-003	0.0281	392.1824

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877	0.0000	2,390.1322	2,390.1322	0.6011		2,405.1600
Total	1.2395	12.2032	15.7800	0.0248		0.6261	0.6261		0.5877	0.5877	0.0000	2,390.1322	2,390.1322	0.6011		2,405.1600

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

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Vendor	0.0126	0.3305	0.0828	1.4400e-003	0.0450	4.0600e-003	0.0491	0.0131	3.8800e-003	0.0170		155.2027	155.2027	4.6800e-003	0.0224	162.0032
Worker	0.0786	0.0591	0.6898	2.2600e-003	0.2452	1.4200e-003	0.2466	0.0654	1.3000e-003	0.0667		228.3630	228.3630	4.8900e-003	5.6800e-003	230.1792
Total	0.0912	0.3896	0.7725	3.7000e-003	0.2902	5.4800e-003	0.2957	0.0785	5.1800e-003	0.0837		383.5657	383.5657	9.5700e-003	0.0281	392.1824

3.6 Construction-Superstructure - 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	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985		8,096.5329	8,096.5329	2.3416		8,155.0720
Total	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985		8,096.5329	8,096.5329	2.3416		8,155.0720

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	0.0190	0.7325	0.1742	2.7300e-003	0.0760	6.8100e-003	0.0828	0.0208	6.5200e-003	0.0274		300.4034	300.4034	0.0144	0.0477	314.9849

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	0.3462	0.2697	3.1636	0.0108	1.2707	6.6500e-003	1.2773	0.3369	6.1300e-003	0.3430		1,086.3777	1,086.3777	0.0201	0.0257	1,094.5240
Total	0.3652	1.0021	3.3378	0.0135	1.3467	0.0135	1.3602	0.3577	0.0127	0.3704		1,386.7811	1,386.7811	0.0345	0.0734	1,409.5089

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	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985	0.0000	8,096.5329	8,096.5329	2.3416		8,155.0720
Total	4.8657	51.6325	40.5489	0.0840		2.2577	2.2577		2.0985	2.0985	0.0000	8,096.5329	8,096.5329	2.3416		8,155.0720

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	0.0190	0.7325	0.1742	2.7300e-003	0.0709	6.8100e-003	0.0777	0.0196	6.5200e-003	0.0261		300.4034	300.4034	0.0144	0.0477	314.9849

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	0.3462	0.2697	3.1636	0.0108	1.1712	6.6500e-003	1.1779	0.3125	6.1300e-003	0.3186		1,086.3777	1,086.3777	0.0201	0.0257	1,094.5240
Total	0.3652	1.0021	3.3378	0.0135	1.2421	0.0135	1.2555	0.3321	0.0127	0.3447		1,386.7811	1,386.7811	0.0345	0.0734	1,409.5089

3.6 Construction-Superstructure - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836		8,096.9066	8,096.9066	2.3375		8,155.3435
Total	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836		8,096.9066	8,096.9066	2.3375		8,155.3435

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	9.2500e-003	0.5915	0.1581	2.6000e-003	0.0760	4.8400e-003	0.0809	0.0208	4.6300e-003	0.0255		287.7145	287.7145	0.0145	0.0458	301.7111

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	0.3265	0.2388	2.9157	0.0104	1.2707	6.3100e-003	1.2770	0.3369	5.8100e-003	0.3427		1,052.0626	1,052.0626	0.0180	0.0237	1,059.5681
Total	0.3358	0.8303	3.0739	0.0130	1.3467	0.0112	1.3578	0.3577	0.0104	0.3682		1,339.7772	1,339.7772	0.0325	0.0694	1,361.2791

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	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836	0.0000	8,096.9065	8,096.9065	2.3375		8,155.3435
Total	4.5721	47.3583	39.8463	0.0840		2.0270	2.0270		1.8836	1.8836	0.0000	8,096.9065	8,096.9065	2.3375		8,155.3435

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	9.2500e-003	0.5915	0.1581	2.6000e-003	0.0709	4.8400e-003	0.0757	0.0196	4.6300e-003	0.0242		287.7145	287.7145	0.0145	0.0458	301.7111

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	0.3265	0.2388	2.9157	0.0104	1.1712	6.3100e-003	1.1775	0.3125	5.8100e-003	0.3183		1,052.0626	1,052.0626	0.0180	0.0237	1,059.5681
Total	0.3358	0.8303	3.0739	0.0130	1.2421	0.0112	1.2532	0.3321	0.0104	0.3425		1,339.7772	1,339.7772	0.0325	0.0694	1,361.2791

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713		398.3152	398.3152	0.1288		401.5358
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713		398.3152	398.3152	0.1288		401.5358

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					

Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	0.0106	7.4900e-003	0.0910	3.1000e-004	0.0380	1.9000e-004	0.0382	0.0101	1.8000e-004	0.0103		31.5929	31.5929	6.3000e-004	7.5000e-004	31.8324
Total	0.0106	7.4900e-003	0.0910	3.1000e-004	0.0380	1.9000e-004	0.0382	0.0101	1.8000e-004	0.0103		31.5929	31.5929	6.3000e-004	7.5000e-004	31.8324

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	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713	0.0000	398.3152	398.3152	0.1288		401.5358
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1679	1.6474	2.5227	4.1200e-003		0.0775	0.0775		0.0713	0.0713	0.0000	398.3152	398.3152	0.1288		401.5358

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

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	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	0.0106	7.4900e-003	0.0910	3.1000e-004	0.0350	1.9000e-004	0.0352	9.3500e-003	1.8000e-004	9.5200e-003		31.5929	31.5929	6.3000e-004	7.5000e-004	31.8324
Total	0.0106	7.4900e-003	0.0910	3.1000e-004	0.0350	1.9000e-004	0.0352	9.3500e-003	1.8000e-004	9.5200e-003		31.5929	31.5929	6.3000e-004	7.5000e-004	31.8324

3.8 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578		4,155.3112	4,155.3112	0.8971		4,177.7385
Total	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578		4,155.3112	4,155.3112	0.8971		4,177.7385

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Category	lb/day										lb/day					
	Hauling	0.0253	1.6195	0.4330	7.1300e-003	0.2081	0.0132	0.2214	0.0571	0.0127	0.0697		787.6847	787.6847	0.0396	0.1253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0847	0.0599	0.7279	2.5000e-003	0.3040	1.5300e-003	0.3056	0.0806	1.4100e-003	0.0820		252.7432	252.7432	5.0400e-003	6.0100e-003	254.6592
Total	0.1100	1.6794	1.1609	9.6300e-003	0.5122	0.0148	0.5270	0.1377	0.0141	0.1517		1,040.4279	1,040.4279	0.0446	0.1313	1,080.6626

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	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578	0.0000	4,155.3112	4,155.3112	0.8971		4,177.7385
Total	2.7777	26.5261	20.9932	0.0433		1.2278	1.2278		1.1578	1.1578	0.0000	4,155.3112	4,155.3112	0.8971		4,177.7385

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
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Santa Margarita River Sandia Creek Drive Fish Passage Project - San Diego County, Winter

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

Category	lb/day										lb/day					
	Hauling	0.0253	1.6195	0.4330	7.1300e-003	0.1940	0.0132	0.2072	0.0536	0.0127	0.0662		787.6847	787.6847	0.0396	0.1253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0847	0.0599	0.7279	2.5000e-003	0.2802	1.5300e-003	0.2818	0.0748	1.4100e-003	0.0762		252.7432	252.7432	5.0400e-003	6.0100e-003	254.6592
Total	0.1100	1.6794	1.1609	9.6300e-003	0.4742	0.0148	0.4890	0.1284	0.0141	0.1424		1,040.4279	1,040.4279	0.0446	0.1313	1,080.6626

