

Appendix C
Air Quality CalEEMod
Modeling Output

Mission Canyon Stream Habitat Restoration Project
Initial Study/Mitigated Negative Declaration

Mission Creek - Santa Barbara County APCD Air District, Winter

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

Mission Creek

Santa Barbara County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.9	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year		2024	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	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 -

Construction Phase - assumed per client's email

Off-road Equipment - Per client's email on equipment used during Berm removal and Replacement

Off-road Equipment - Per equipment list provided by the client

Off-road Equipment - per project description

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - Per equipment list provided by the client, add a rock crushing equipment that operates four hours per day

Off-road Equipment - Per equipment list provided by the client

Trips and VMT - hauling distance based on haul route map provided by applicant; total hauling trips = total truck trips from traffic study
Assumed all the hauling happend during stream restoration.

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On-road Fugitive Dust - 0.5 mile of 55.2 miles (round-trip) hauling trip would be unpaved

Grading - Per information provided by client

Vehicle Trips - Monitoring phase truck trips, trip number and trip length per traffic study

Construction Off-road Equipment Mitigation - SBCAPCD requirements

Fleet Mix - conservative, assume 100% HHD

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	14.00
tblConstructionPhase	NumDays	6.00	107.00
tblConstructionPhase	NumDays	6.00	138.00
tblConstructionPhase	NumDays	6.00	35.00
tblConstructionPhase	NumDays	6.00	50.00
tblConstructionPhase	NumDays	6.00	57.00
tblConstructionPhase	PhaseEndDate	7/4/2023	7/19/2023
tblConstructionPhase	PhaseEndDate	7/12/2023	12/14/2023
tblConstructionPhase	PhaseEndDate	7/20/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	7/28/2023	3/15/2024
tblConstructionPhase	PhaseEndDate	8/7/2023	4/5/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	6/3/2024
tblConstructionPhase	PhaseStartDate	7/5/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/21/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	7/29/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	8/8/2023	3/15/2024
tblFleetMix	HHD	6.1990e-003	1.00
tblFleetMix	LDA	0.50	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.03	0.00

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

tblFleetMix	LHD2	6.9700e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0530e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5300e-004	0.00
tblFleetMix	SBUS	3.4860e-003	0.00
tblFleetMix	UBUS	5.8800e-004	0.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	89.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38

Mission Creek - Santa Barbara County APCD Air District, Winter

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

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

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

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	27.60
tblTripsAndVMT	HaulingTripNumber	0.00	8,196.00
tblVehicleTrips	CC_TL	5.50	27.60
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.63
tblVehicleTrips	SU_TR	0.00	0.63

Mission Creek - Santa Barbara County APCD Air District, Winter

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

tblVehicleTrips	WD_TR	0.00	0.63
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2.0 Emissions Summary

Mission Creek - Santa Barbara County APCD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	8.9398	86.8957	88.3625	0.2561	26.1081	3.2532	29.3613	2.9459	2.9967	5.9425	0.0000	25,624.4601	25,624.4601	6.7414	0.9086	26,063.7482
2024	6.6055	50.9305	66.0488	0.1641	25.7923	2.1138	27.4403	2.8621	1.9499	4.3819	0.0000	16,647.6848	16,647.6848	4.9634	0.8852	17,010.4396
Maximum	8.9398	86.8957	88.3625	0.2561	26.1081	3.2532	29.3613	2.9459	2.9967	5.9425	0.0000	25,624.4601	25,624.4601	6.7414	0.9086	26,063.7482

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	8.9398	86.8957	88.3625	0.2561	26.1081	3.2532	29.3613	2.9459	2.9967	5.9425	0.0000	25,624.4601	25,624.4601	6.7414	0.9086	26,063.7482
2024	6.6055	50.9305	66.0488	0.1641	25.7923	2.1138	27.4403	2.8621	1.9499	4.3819	0.0000	16,647.6848	16,647.6848	4.9634	0.8852	17,010.4396
Maximum	8.9398	86.8957	88.3625	0.2561	26.1081	3.2532	29.3613	2.9459	2.9967	5.9425	0.0000	25,624.4601	25,624.4601	6.7414	0.9086	26,063.7482

Mission Creek - Santa Barbara County APCD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.4200e-003	0.3853	0.0980	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6646	166.6646	0.0123	0.0267	174.9393
Total	0.0738	0.3853	0.0983	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6652	166.6652	0.0123	0.0267	174.9400

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.4200e-003	0.3853	0.0980	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6646	166.6646	0.0123	0.0267	174.9393
Total	0.0738	0.3853	0.0983	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6652	166.6652	0.0123	0.0267	174.9400

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilization	Site Preparation	6/30/2023	7/19/2023	5	14	
2	Berm removal and Replacement	Grading	7/19/2023	12/14/2023	5	107	
3	Stream Restoration	Grading	7/19/2023	1/26/2024	5	138	
4	Demobilization	Grading	1/27/2024	3/15/2024	5	35	
5	Rock Crushing	Grading	1/27/2024	4/5/2024	5	50	
6	Berm Repair	Grading	3/15/2024	6/3/2024	5	57	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.88

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stream Restoration	Excavators	2	8.00	158	0.38
Demobilization	Excavators	2	8.00	158	0.38
Rock Crushing	Crushing/Proc. Equipment	1	4.00	85	0.78
Berm Repair	Excavators	1	8.00	158	0.38
Mobilization	Excavators	2	8.00	187	0.41

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

Mobilization	Off-Highway Trucks	5	8.00	97	0.37
Stream Restoration	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Rock Crushing	Excavators	1	8.00	158	0.38
Berm Repair	Off-Highway Trucks	1	8.00	402	0.38
Mobilization	Forklifts	1	8.00	367	0.48
Stream Restoration	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Rubber Tired Loaders	1	8.00	203	0.36
Mobilization	Skid Steer Loaders	2	8.00	65	0.37
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Berm removal and Replacement	Excavators	2	8.00	158	0.38
Berm removal and Replacement	Off-Highway Trucks	1	8.00	402	0.38
Berm removal and Replacement	Skid Steer Loaders	1	8.00	65	0.37
Rock Crushing	Off-Highway Trucks	1	8.00	402	0.38
Stream Restoration	Other Construction Equipment	3	8.00	172	0.42
Stream Restoration	Rubber Tired Loaders	1	8.00	203	0.36
Stream Restoration	Skid Steer Loaders	2	8.00	65	0.37
Rock Crushing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stream Restoration	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Rubber Tired Loaders	1	8.00	203	0.36
Demobilization	Skid Steer Loaders	2	8.00	65	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Rock Crushing	Skid Steer Loaders	1	8.00	65	0.37
Berm Repair	Skid Steer Loaders	1	8.00	65	0.37

Trips and VMT

Mission Creek - Santa Barbara County APCD Air District, Winter

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

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
Mobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm removal and Replacement	4	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Stream Restoration	16	40.00	0.00	8,196.00	8.30	6.40	27.60	LD_Mix	HDT_Mix	HHDT
Demobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Rock Crushing	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm Repair	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.8042	26.4748	27.3225	0.0634		1.1479	1.1479		1.0561	1.0561		6,132.3395	6,132.3395	1.9833		6,181.9225
Total	2.8042	26.4748	27.3225	0.0634	0.0000	1.1479	1.1479	0.0000	1.0561	1.0561		6,132.3395	6,132.3395	1.9833		6,181.9225

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

3.2 Mobilization - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293

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	2.8042	26.4748	27.3225	0.0634		1.1479	1.1479		1.0561	1.0561	0.0000	6,132.3395	6,132.3395	1.9833		6,181.9225
Total	2.8042	26.4748	27.3225	0.0634	0.0000	1.1479	1.1479	0.0000	1.0561	1.0561	0.0000	6,132.3395	6,132.3395	1.9833		6,181.9225

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.2 Mobilization - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293

3.3 Berm removal and Replacement - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	7.5597	11.2328	0.0257		0.3112	0.3112		0.2863	0.2863		2,491.1737	2,491.1737	0.8057		2,511.3161
Total	0.9505	7.5597	11.2328	0.0257	0.0000	0.3112	0.3112	0.0000	0.2863	0.2863		2,491.1737	2,491.1737	0.8057		2,511.3161

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.3 Berm removal and Replacement - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0189	0.2006	5.1000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823
Total	0.0276	0.0189	0.2006	5.1000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823

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	0.9505	7.5597	11.2328	0.0257		0.3112	0.3112		0.2863	0.2863	0.0000	2,491.1737	2,491.1737	0.8057		2,511.3161
Total	0.9505	7.5597	11.2328	0.0257	0.0000	0.3112	0.3112	0.0000	0.2863	0.2863	0.0000	2,491.1737	2,491.1737	0.8057		2,511.3161

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.3 Berm removal and Replacement - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0189	0.2006	5.1000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823
Total	0.0276	0.0189	0.2006	5.1000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823

3.4 Stream Restoration - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.7511	39.6555	44.8210	0.1133		1.6899	1.6899		1.5547	1.5547		10,969.1945	10,969.1945	3.5477		11,057.8860
Total	4.7511	39.6555	44.8210	0.1133	0.0000	1.6899	1.6899	0.0000	1.5547	1.5547		10,969.1945	10,969.1945	3.5477		11,057.8860

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.4 Stream Restoration - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1855	13.0359	3.1807	0.0490	25.5397	0.1015	25.6412	2.7951	0.0971	2.8922		5,565.7018	5,565.7018	0.3858	0.8921	5,841.1828
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	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.2960	13.1114	3.9831	0.0511	25.7923	0.1027	25.8950	2.8621	0.0982	2.9603		5,772.8355	5,772.8355	0.3942	0.8994	6,050.7121

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	4.7511	39.6555	44.8210	0.1133		1.6899	1.6899		1.5547	1.5547	0.0000	10,969.1945	10,969.1945	3.5477		11,057.8860
Total	4.7511	39.6555	44.8210	0.1133	0.0000	1.6899	1.6899	0.0000	1.5547	1.5547	0.0000	10,969.1945	10,969.1945	3.5477		11,057.8860

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.4 Stream Restoration - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1855	13.0359	3.1807	0.0490	25.5397	0.1015	25.6412	2.7951	0.0971	2.8922		5,565.7018	5,565.7018	0.3858	0.8921	5,841.1828
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	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.2960	13.1114	3.9831	0.0511	25.7923	0.1027	25.8950	2.8621	0.0982	2.9603		5,772.8355	5,772.8355	0.3942	0.8994	6,050.7121

3.4 Stream Restoration - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.4 Stream Restoration - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1787	12.6542	3.2164	0.0481	25.5397	0.0995	25.6391	2.7951	0.0952	2.8902		5,474.7786	5,474.7786	0.4029	0.8783	5,746.5967
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	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474
Total	0.2822	12.7214	3.9621	0.0500	25.7923	0.1006	25.8929	2.8621	0.0962	2.9583		5,675.4057	5,675.4057	0.4106	0.8852	5,949.4441

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	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.4 Stream Restoration - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1787	12.6542	3.2164	0.0481	25.5397	0.0995	25.6391	2.7951	0.0952	2.8902		5,474.7786	5,474.7786	0.4029	0.8783	5,746.5967
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	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474
Total	0.2822	12.7214	3.9621	0.0500	25.7923	0.1006	25.8929	2.8621	0.0962	2.9583		5,675.4057	5,675.4057	0.4106	0.8852	5,949.4441

3.5 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.5 Demobilization - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474
Total	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474

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	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.5 Demobilization - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474
Total	0.1035	0.0673	0.7457	1.9800e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		200.6271	200.6271	7.6500e-003	6.8100e-003	202.8474

3.6 Rock Crushing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0995	8.4225	12.3238	0.0272		0.3483	0.3483		0.3257	0.3257		2,623.3048	2,623.3048	0.7597		2,642.2968
Total	1.0995	8.4225	12.3238	0.0272	0.0000	0.3483	0.3483	0.0000	0.3257	0.3257		2,623.3048	2,623.3048	0.7597		2,642.2968

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.6 Rock Crushing - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0219	0.2424	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		65.2038	65.2038	2.4900e-003	2.2100e-003	65.9254
Total	0.0337	0.0219	0.2424	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		65.2038	65.2038	2.4900e-003	2.2100e-003	65.9254

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	1.0995	8.4225	12.3238	0.0272		0.3483	0.3483		0.3257	0.3257	0.0000	2,623.3048	2,623.3048	0.7597		2,642.2968
Total	1.0995	8.4225	12.3238	0.0272	0.0000	0.3483	0.3483	0.0000	0.3257	0.3257	0.0000	2,623.3048	2,623.3048	0.7597		2,642.2968

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.6 Rock Crushing - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0219	0.2424	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		65.2038	65.2038	2.4900e-003	2.2100e-003	65.9254
Total	0.0337	0.0219	0.2424	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		65.2038	65.2038	2.4900e-003	2.2100e-003	65.9254

3.7 Berm Repair - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7427	5.5775	7.9267	0.0206		0.2163	0.2163		0.1990	0.1990		1,989.2730	1,989.2730	0.6434		2,005.3573
Total	0.7427	5.5775	7.9267	0.0206	0.0000	0.2163	0.2163	0.0000	0.1990	0.1990		1,989.2730	1,989.2730	0.6434		2,005.3573

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.7 Berm Repair - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0207	0.0135	0.1491	4.0000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.1254	40.1254	1.5300e-003	1.3600e-003	40.5695
Total	0.0207	0.0135	0.1491	4.0000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.1254	40.1254	1.5300e-003	1.3600e-003	40.5695

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	0.7427	5.5775	7.9267	0.0206		0.2163	0.2163		0.1990	0.1990	0.0000	1,989.2730	1,989.2730	0.6434		2,005.3573
Total	0.7427	5.5775	7.9267	0.0206	0.0000	0.2163	0.2163	0.0000	0.1990	0.1990	0.0000	1,989.2730	1,989.2730	0.6434		2,005.3573

Mission Creek - Santa Barbara County APCD Air District, Winter

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

3.7 Berm Repair - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0207	0.0135	0.1491	4.0000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.1254	40.1254	1.5300e-003	1.3600e-003	40.5695
Total	0.0207	0.0135	0.1491	4.0000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.1254	40.1254	1.5300e-003	1.3600e-003	40.5695

Mission Creek - Santa Barbara County APCD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4200e-003	0.3853	0.0980	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6646	166.6646	0.0123	0.0267	174.9393
Unmitigated	5.4200e-003	0.3853	0.0980	1.4600e-003	0.0436	3.0300e-003	0.0466	0.0119	2.9000e-003	0.0148		166.6646	166.6646	0.0123	0.0267	174.9393

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	1.81	1.81	1.81	18,228	18,228
Total	1.81	1.81	1.81	18,228	18,228

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	6.60	27.60	6.40	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

Mission Creek - Santa Barbara County APCD Air District, Winter

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mission Creek - Santa Barbara County APCD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Unmitigated	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

Mission Creek - Santa Barbara County APCD Air District, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Total	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

Mission Creek - Santa Barbara County APCD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Total	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Mission Creek - Santa Barbara County APCD Air District, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Mission Creek - Santa Barbara County APCD Air District, Summer

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

Mission Creek

Santa Barbara County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.9	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year		2024	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	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 -

Construction Phase - assumed per client's email

Off-road Equipment - Per client's email on equipment used during Berm removal and Replacement

Off-road Equipment - Per equipment list provided by the client

Off-road Equipment - per project description

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - Per equipment list provided by the client, add a rock crushing equipment that operates four hours per day

Off-road Equipment - Per equipment list provided by the client

Trips and VMT - hauling distance based on haul route map provided by applicant; total hauling trips = total truck trips from traffic study
Assumed all the hauling happend during stream restoration.

Mission Creek - Santa Barbara County APCD Air District, Summer

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

On-road Fugitive Dust - 0.5 mile of 55.2 miles (round-trip) hauling trip would be unpaved

Grading - Per information provided by client

Vehicle Trips - Monitoring phase truck trips, trip number and trip length per traffic study

Construction Off-road Equipment Mitigation - SBCAPCD requirements

Fleet Mix - conservative, assume 100% HHD

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	14.00
tblConstructionPhase	NumDays	6.00	107.00
tblConstructionPhase	NumDays	6.00	138.00
tblConstructionPhase	NumDays	6.00	35.00
tblConstructionPhase	NumDays	6.00	50.00
tblConstructionPhase	NumDays	6.00	57.00
tblConstructionPhase	PhaseEndDate	7/4/2023	7/19/2023
tblConstructionPhase	PhaseEndDate	7/12/2023	12/14/2023
tblConstructionPhase	PhaseEndDate	7/20/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	7/28/2023	3/15/2024
tblConstructionPhase	PhaseEndDate	8/7/2023	4/5/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	6/3/2024
tblConstructionPhase	PhaseStartDate	7/5/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/21/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	7/29/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	8/8/2023	3/15/2024
tblFleetMix	HHD	6.1990e-003	1.00
tblFleetMix	LDA	0.50	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.03	0.00

Mission Creek - Santa Barbara County APCD Air District, Summer

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

tblFleetMix	LHD2	6.9700e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0530e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5300e-004	0.00
tblFleetMix	SBUS	3.4860e-003	0.00
tblFleetMix	UBUS	5.8800e-004	0.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	89.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38

Mission Creek - Santa Barbara County APCD Air District, Summer

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

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

Mission Creek - Santa Barbara County APCD Air District, Summer

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

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	27.60
tblTripsAndVMT	HaulingTripNumber	0.00	8,196.00
tblVehicleTrips	CC_TL	5.50	27.60
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.63
tblVehicleTrips	SU_TR	0.00	0.63

Mission Creek - Santa Barbara County APCD Air District, Summer

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

tblVehicleTrips	WD_TR	0.00	0.63
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2.0 Emissions Summary

Mission Creek - Santa Barbara County APCD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	8.9267	86.5300	88.2706	0.2561	26.1081	3.2530	29.3611	2.9459	2.9965	5.9424	0.0000	25,631.15 36	25,631.15 36	6.7401	0.9066	26,069.82 75
2024	6.5925	50.9176	66.0012	0.1642	25.7923	2.1138	27.4402	2.8621	1.9499	4.3818	0.0000	16,648.78 59	16,648.78 59	4.9622	0.8840	17,011.20 30
Maximum	8.9267	86.5300	88.2706	0.2561	26.1081	3.2530	29.3611	2.9459	2.9965	5.9424	0.0000	25,631.15 36	25,631.15 36	6.7401	0.9066	26,069.82 75

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	8.9267	86.5300	88.2706	0.2561	26.1081	3.2530	29.3611	2.9459	2.9965	5.9424	0.0000	25,631.15 36	25,631.15 36	6.7401	0.9066	26,069.82 75
2024	6.5925	50.9176	66.0012	0.1642	25.7923	2.1138	27.4402	2.8621	1.9499	4.3818	0.0000	16,648.78 59	16,648.78 59	4.9622	0.8840	17,011.20 30
Maximum	8.9267	86.5300	88.2706	0.2561	26.1081	3.2530	29.3611	2.9459	2.9965	5.9424	0.0000	25,631.15 36	25,631.15 36	6.7401	0.9066	26,069.82 75

Mission Creek - Santa Barbara County APCD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.6400e-003	0.3751	0.0973	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5711	166.5711	0.0123	0.0267	174.8415
Total	0.0740	0.3751	0.0976	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5718	166.5718	0.0123	0.0267	174.8422

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.6400e-003	0.3751	0.0973	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5711	166.5711	0.0123	0.0267	174.8415
Total	0.0740	0.3751	0.0976	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5718	166.5718	0.0123	0.0267	174.8422

Mission Creek - Santa Barbara County APCD Air District, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilization	Site Preparation	6/30/2023	7/19/2023	5	14	
2	Berm removal and Replacement	Grading	7/19/2023	12/14/2023	5	107	
3	Stream Restoration	Grading	7/19/2023	1/26/2024	5	138	
4	Demobilization	Grading	1/27/2024	3/15/2024	5	35	
5	Rock Crushing	Grading	1/27/2024	4/5/2024	5	50	
6	Berm Repair	Grading	3/15/2024	6/3/2024	5	57	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.88

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stream Restoration	Excavators	2	8.00	158	0.38
Demobilization	Excavators	2	8.00	158	0.38
Rock Crushing	Crushing/Proc. Equipment	1	4.00	85	0.78
Berm Repair	Excavators	1	8.00	158	0.38
Mobilization	Excavators	2	8.00	187	0.41

Mission Creek - Santa Barbara County APCD Air District, Summer

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

Mobilization	Off-Highway Trucks	5	8.00	97	0.37
Stream Restoration	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Rock Crushing	Excavators	1	8.00	158	0.38
Berm Repair	Off-Highway Trucks	1	8.00	402	0.38
Mobilization	Forklifts	1	8.00	367	0.48
Stream Restoration	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Rubber Tired Loaders	1	8.00	203	0.36
Mobilization	Skid Steer Loaders	2	8.00	65	0.37
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Berm removal and Replacement	Excavators	2	8.00	158	0.38
Berm removal and Replacement	Off-Highway Trucks	1	8.00	402	0.38
Berm removal and Replacement	Skid Steer Loaders	1	8.00	65	0.37
Rock Crushing	Off-Highway Trucks	1	8.00	402	0.38
Stream Restoration	Other Construction Equipment	3	8.00	172	0.42
Stream Restoration	Rubber Tired Loaders	1	8.00	203	0.36
Stream Restoration	Skid Steer Loaders	2	8.00	65	0.37
Rock Crushing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stream Restoration	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Rubber Tired Loaders	1	8.00	203	0.36
Demobilization	Skid Steer Loaders	2	8.00	65	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Rock Crushing	Skid Steer Loaders	1	8.00	65	0.37
Berm Repair	Skid Steer Loaders	1	8.00	65	0.37

Trips and VMT

Mission Creek - Santa Barbara County APCD Air District, Summer

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

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
Mobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm removal and Replacement	4	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Stream Restoration	16	40.00	0.00	8,196.00	8.30	6.40	27.60	LD_Mix	HDT_Mix	HHDT
Demobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Rock Crushing	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm Repair	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.8042	26.4748	27.3225	0.0634		1.1479	1.1479		1.0561	1.0561		6,132.3395	6,132.3395	1.9833		6,181.9225
Total	2.8042	26.4748	27.3225	0.0634	0.0000	1.1479	1.1479	0.0000	1.0561	1.0561		6,132.3395	6,132.3395	1.9833		6,181.9225

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.2 Mobilization - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279

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	2.8042	26.4748	27.3225	0.0634		1.1479	1.1479		1.0561	1.0561	0.0000	6,132.3395	6,132.3395	1.9833		6,181.9225
Total	2.8042	26.4748	27.3225	0.0634	0.0000	1.1479	1.1479	0.0000	1.0561	1.0561	0.0000	6,132.3395	6,132.3395	1.9833		6,181.9225

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.2 Mobilization - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279

3.3 Berm removal and Replacement - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9505	7.5597	11.2328	0.0257		0.3112	0.3112		0.2863	0.2863		2,491.1737	2,491.1737	0.8057		2,511.3161
Total	0.9505	7.5597	11.2328	0.0257	0.0000	0.3112	0.3112	0.0000	0.2863	0.2863		2,491.1737	2,491.1737	0.8057		2,511.3161

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.3 Berm removal and Replacement - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0165	0.1927	5.2000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070
Total	0.0254	0.0165	0.1927	5.2000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070

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	0.9505	7.5597	11.2328	0.0257		0.3112	0.3112		0.2863	0.2863	0.0000	2,491.1737	2,491.1737	0.8057		2,511.3161
Total	0.9505	7.5597	11.2328	0.0257	0.0000	0.3112	0.3112	0.0000	0.2863	0.2863	0.0000	2,491.1737	2,491.1737	0.8057		2,511.3161

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.3 Berm removal and Replacement - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0165	0.1927	5.2000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070
Total	0.0254	0.0165	0.1927	5.2000e-004	0.0632	3.1000e-004	0.0635	0.0168	2.8000e-004	0.0170		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070

3.4 Stream Restoration - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.7511	39.6555	44.8210	0.1133		1.6899	1.6899		1.5547	1.5547		10,969.1945	10,969.1945	3.5477		11,057.8860
Total	4.7511	39.6555	44.8210	0.1133	0.0000	1.6899	1.6899	0.0000	1.5547	1.5547		10,969.1945	10,969.1945	3.5477		11,057.8860

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.4 Stream Restoration - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1924	12.6914	3.1596	0.0490	25.5397	0.1013	25.6410	2.7951	0.0969	2.8920		5,562.7017	5,562.7017	0.3863	0.8916	5,838.0401
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	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.2940	12.7575	3.9306	0.0511	25.7923	0.1026	25.8949	2.8621	0.0981	2.9602		5,774.1436	5,774.1436	0.3939	0.8983	6,051.6680

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	4.7511	39.6555	44.8210	0.1133		1.6899	1.6899		1.5547	1.5547	0.0000	10,969.1945	10,969.1945	3.5477		11,057.8860
Total	4.7511	39.6555	44.8210	0.1133	0.0000	1.6899	1.6899	0.0000	1.5547	1.5547	0.0000	10,969.1945	10,969.1945	3.5477		11,057.8860

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.4 Stream Restoration - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1924	12.6914	3.1596	0.0490	25.5397	0.1013	25.6410	2.7951	0.0969	2.8920		5,562.7017	5,562.7017	0.3863	0.8916	5,838.0401
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	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.2940	12.7575	3.9306	0.0511	25.7923	0.1026	25.8949	2.8621	0.0981	2.9602		5,774.1436	5,774.1436	0.3939	0.8983	6,051.6680

3.4 Stream Restoration - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.4 Stream Restoration - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1856	12.3179	3.1937	0.0480	25.5397	0.0993	25.6390	2.7951	0.0950	2.8901		5,471.7186	5,471.7186	0.4034	0.8778	5,743.3930
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	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145
Total	0.2806	12.3767	3.9083	0.0501	25.7923	0.1005	25.8928	2.8621	0.0961	2.9582		5,676.5069	5,676.5069	0.4103	0.8840	5,950.2075

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	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.4 Stream Restoration - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1856	12.3179	3.1937	0.0480	25.5397	0.0993	25.6390	2.7951	0.0950	2.8901		5,471.7186	5,471.7186	0.4034	0.8778	5,743.3930
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	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145
Total	0.2806	12.3767	3.9083	0.0501	25.7923	0.1005	25.8928	2.8621	0.0961	2.9582		5,676.5069	5,676.5069	0.4103	0.8840	5,950.2075

3.5 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236		10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.5 Demobilization - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145
Total	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145

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	4.6055	36.8279	44.6610	0.1134		1.5474	1.5474		1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955
Total	4.6055	36.8279	44.6610	0.1134	0.0000	1.5474	1.5474	0.0000	1.4236	1.4236	0.0000	10,972.2791	10,972.2791	3.5487		11,060.9955

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.5 Demobilization - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145
Total	0.0950	0.0589	0.7145	2.0300e-003	0.2526	1.1700e-003	0.2538	0.0670	1.0800e-003	0.0681		204.7883	204.7883	6.9100e-003	6.2200e-003	206.8145

3.6 Rock Crushing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0995	8.4225	12.3238	0.0272		0.3483	0.3483		0.3257	0.3257		2,623.3048	2,623.3048	0.7597		2,642.2968
Total	1.0995	8.4225	12.3238	0.0272	0.0000	0.3483	0.3483	0.0000	0.3257	0.3257		2,623.3048	2,623.3048	0.7597		2,642.2968

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.6 Rock Crushing - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0309	0.0191	0.2322	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5562	66.5562	2.2400e-003	2.0200e-003	67.2147
Total	0.0309	0.0191	0.2322	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5562	66.5562	2.2400e-003	2.0200e-003	67.2147

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	1.0995	8.4225	12.3238	0.0272		0.3483	0.3483		0.3257	0.3257	0.0000	2,623.3048	2,623.3048	0.7597		2,642.2968
Total	1.0995	8.4225	12.3238	0.0272	0.0000	0.3483	0.3483	0.0000	0.3257	0.3257	0.0000	2,623.3048	2,623.3048	0.7597		2,642.2968

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.6 Rock Crushing - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0309	0.0191	0.2322	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5562	66.5562	2.2400e-003	2.0200e-003	67.2147
Total	0.0309	0.0191	0.2322	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5562	66.5562	2.2400e-003	2.0200e-003	67.2147

3.7 Berm Repair - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7427	5.5775	7.9267	0.0206		0.2163	0.2163		0.1990	0.1990		1,989.2730	1,989.2730	0.6434		2,005.3573
Total	0.7427	5.5775	7.9267	0.0206	0.0000	0.2163	0.2163	0.0000	0.1990	0.1990		1,989.2730	1,989.2730	0.6434		2,005.3573

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.7 Berm Repair - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0190	0.0118	0.1429	4.1000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.9577	40.9577	1.3800e-003	1.2400e-003	41.3629
Total	0.0190	0.0118	0.1429	4.1000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.9577	40.9577	1.3800e-003	1.2400e-003	41.3629

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	0.7427	5.5775	7.9267	0.0206		0.2163	0.2163		0.1990	0.1990	0.0000	1,989.2730	1,989.2730	0.6434		2,005.3573
Total	0.7427	5.5775	7.9267	0.0206	0.0000	0.2163	0.2163	0.0000	0.1990	0.1990	0.0000	1,989.2730	1,989.2730	0.6434		2,005.3573

Mission Creek - Santa Barbara County APCD Air District, Summer

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

3.7 Berm Repair - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0190	0.0118	0.1429	4.1000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.9577	40.9577	1.3800e-003	1.2400e-003	41.3629
Total	0.0190	0.0118	0.1429	4.1000e-004	0.0505	2.3000e-004	0.0508	0.0134	2.2000e-004	0.0136		40.9577	40.9577	1.3800e-003	1.2400e-003	41.3629

Mission Creek - Santa Barbara County APCD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6400e-003	0.3751	0.0973	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5711	166.5711	0.0123	0.0267	174.8415
Unmitigated	5.6400e-003	0.3751	0.0973	1.4600e-003	0.0436	3.0200e-003	0.0466	0.0119	2.8900e-003	0.0148		166.5711	166.5711	0.0123	0.0267	174.8415

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	1.81	1.81	1.81	18,228	18,228
Total	1.81	1.81	1.81	18,228	18,228

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	6.60	27.60	6.40	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

Mission Creek - Santa Barbara County APCD Air District, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	

Mission Creek - Santa Barbara County APCD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Unmitigated	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

Mission Creek - Santa Barbara County APCD Air District, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Total	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

Mission Creek - Santa Barbara County APCD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004
Total	0.0684	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.3000e-004	6.3000e-004	0.0000		6.7000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Mission Creek - Santa Barbara County APCD Air District, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Mission Creek - Santa Barbara County APCD Air District, Annual

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

Mission Creek

Santa Barbara County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.9	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year		2024	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	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 -

Construction Phase - assumed per client's email

Off-road Equipment - Per client's email on equipment used during Berm removal and Replacement

Off-road Equipment - Per equipment list provided by the client

Off-road Equipment - per project description

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - assumed use the same equipment as stream restoration as a conservative analysis

Off-road Equipment - Per equipment list provided by the client, add a rock crushing equipment that operates four hours per day

Off-road Equipment - Per equipment list provided by the client

Trips and VMT - hauling distance based on haul route map provided by applicant; total hauling trips = total truck trips from traffic study
Assumed all the hauling happend during stream restoration.

Mission Creek - Santa Barbara County APCD Air District, Annual

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

On-road Fugitive Dust - 0.5 mile of 55.2 miles (round-trip) hauling trip would be unpaved

Grading - Per information provided by client

Vehicle Trips - Monitoring phase truck trips, trip number and trip length per traffic study

Construction Off-road Equipment Mitigation - SBCAPCD requirements

Fleet Mix - conservative, assume 100% HHD

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	14.00
tblConstructionPhase	NumDays	6.00	107.00
tblConstructionPhase	NumDays	6.00	138.00
tblConstructionPhase	NumDays	6.00	35.00
tblConstructionPhase	NumDays	6.00	50.00
tblConstructionPhase	NumDays	6.00	57.00
tblConstructionPhase	PhaseEndDate	7/4/2023	7/19/2023
tblConstructionPhase	PhaseEndDate	7/12/2023	12/14/2023
tblConstructionPhase	PhaseEndDate	7/20/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	7/28/2023	3/15/2024
tblConstructionPhase	PhaseEndDate	8/7/2023	4/5/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	6/3/2024
tblConstructionPhase	PhaseStartDate	7/5/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	7/19/2023
tblConstructionPhase	PhaseStartDate	7/21/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	7/29/2023	1/27/2024
tblConstructionPhase	PhaseStartDate	8/8/2023	3/15/2024
tblFleetMix	HHD	6.1990e-003	1.00
tblFleetMix	LDA	0.50	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.03	0.00

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tblFleetMix	LHD2	6.9700e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	4.0530e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	9.5300e-004	0.00
tblFleetMix	SBUS	3.4860e-003	0.00
tblFleetMix	UBUS	5.8800e-004	0.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	158.00	187.00
tblOffRoadEquipment	HorsePower	89.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38

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

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

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

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	27.60
tblTripsAndVMT	HaulingTripNumber	0.00	8,196.00
tblVehicleTrips	CC_TL	5.50	27.60
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.63
tblVehicleTrips	SU_TR	0.00	0.63

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

tblVehicleTrips	:	WD_TR	:	0.00	:	0.63
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2.0 Emissions Summary

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

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					
2023	0.3702	3.7119	3.6856	0.0116	1.3806	0.1305	1.5110	0.1553	0.1203	0.2756	0.0000	1,059.699 4	1,059.699 4	0.2628	0.0483	1,080.648 7
2024	0.1811	1.5128	1.8242	4.9500e- 003	0.2409	0.0585	0.2994	0.0282	0.0540	0.0821	0.0000	441.8390	441.8390	0.1263	8.2200e- 003	447.4456
Maximum	0.3702	3.7119	3.6856	0.0116	1.3806	0.1305	1.5110	0.1553	0.1203	0.2756	0.0000	1,059.699 4	1,059.699 4	0.2628	0.0483	1,080.648 7

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					
2023	0.3702	3.7119	3.6856	0.0116	1.3806	0.1305	1.5110	0.1553	0.1203	0.2756	0.0000	1,059.698 5	1,059.698 5	0.2628	0.0483	1,080.647 8
2024	0.1811	1.5128	1.8242	4.9500e- 003	0.2409	0.0585	0.2994	0.0282	0.0540	0.0821	0.0000	441.8386	441.8386	0.1263	8.2200e- 003	447.4451
Maximum	0.3702	3.7119	3.6856	0.0116	1.3806	0.1305	1.5110	0.1553	0.1203	0.2756	0.0000	1,059.698 5	1,059.698 5	0.2628	0.0483	1,080.647 8

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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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-30-2023	9-29-2023	1.9313	1.9313
2	9-30-2023	12-29-2023	2.1111	2.1111
3	12-30-2023	3-29-2024	1.5244	1.5244
4	3-30-2024	6-29-2024	0.1736	0.1736
		Highest	2.1111	2.1111

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.0100e-003	0.0707	0.0177	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4759	27.4759	2.0200e-003	4.4100e-003	28.8401
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0135	0.0707	0.0178	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4760	27.4760	2.0200e-003	4.4100e-003	28.8402

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.0100e-003	0.0707	0.0177	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4759	27.4759	2.0200e-003	4.4100e-003	28.8401
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0135	0.0707	0.0178	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4760	27.4760	2.0200e-003	4.4100e-003	28.8402

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mobilization	Site Preparation	6/30/2023	7/19/2023	5	14	
2	Berm removal and Replacement	Grading	7/19/2023	12/14/2023	5	107	
3	Stream Restoration	Grading	7/19/2023	1/26/2024	5	138	

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

4	Demobilization	Grading	1/27/2024	3/15/2024	5	35
5	Rock Crushing	Grading	1/27/2024	4/5/2024	5	50
6	Berm Repair	Grading	3/15/2024	6/3/2024	5	57

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.88

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stream Restoration	Excavators	2	8.00	158	0.38
Demobilization	Excavators	2	8.00	158	0.38
Rock Crushing	Crushing/Proc. Equipment	1	4.00	85	0.78
Berm Repair	Excavators	1	8.00	158	0.38
Mobilization	Excavators	2	8.00	187	0.41
Mobilization	Off-Highway Trucks	5	8.00	97	0.37
Stream Restoration	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Rock Crushing	Excavators	1	8.00	158	0.38
Berm Repair	Off-Highway Trucks	1	8.00	402	0.38
Mobilization	Forklifts	1	8.00	367	0.48
Stream Restoration	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Off-Highway Trucks	5	8.00	402	0.38
Mobilization	Rubber Tired Loaders	1	8.00	203	0.36
Mobilization	Skid Steer Loaders	2	8.00	65	0.37
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Berm removal and Replacement	Excavators	2	8.00	158	0.38
Berm removal and Replacement	Off-Highway Trucks	1	8.00	402	0.38
Berm removal and Replacement	Skid Steer Loaders	1	8.00	65	0.37
Rock Crushing	Off-Highway Trucks	1	8.00	402	0.38
Stream Restoration	Other Construction Equipment	3	8.00	172	0.42
Stream Restoration	Rubber Tired Loaders	1	8.00	203	0.36
Stream Restoration	Skid Steer Loaders	2	8.00	65	0.37
Rock Crushing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stream Restoration	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Other Construction Equipment	3	8.00	172	0.42
Demobilization	Rubber Tired Loaders	1	8.00	203	0.36
Demobilization	Skid Steer Loaders	2	8.00	65	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Rock Crushing	Skid Steer Loaders	1	8.00	65	0.37
Berm Repair	Skid Steer Loaders	1	8.00	65	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
Mobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm removal and Replacement	4	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Stream Restoration	16	40.00	0.00	8,196.00	8.30	6.40	27.60	LD_Mix	HDT_Mix	HHDT
Demobilization	16	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Rock Crushing	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Berm Repair	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 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					
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	0.0196	0.1853	0.1913	4.4000e-004		8.0400e-003	8.0400e-003		7.3900e-003	7.3900e-003	0.0000	38.9422	38.9422	0.0126	0.0000	39.2570
Total	0.0196	0.1853	0.1913	4.4000e-004	0.0000	8.0400e-003	8.0400e-003	0.0000	7.3900e-003	7.3900e-003	0.0000	38.9422	38.9422	0.0126	0.0000	39.2570

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

3.2 Mobilization - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	5.2000e-004	5.4700e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3167	1.3167	5.0000e-005	5.0000e-005	1.3316
Total	7.2000e-004	5.2000e-004	5.4700e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3167	1.3167	5.0000e-005	5.0000e-005	1.3316

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	0.0196	0.1853	0.1913	4.4000e-004		8.0400e-003	8.0400e-003		7.3900e-003	7.3900e-003	0.0000	38.9421	38.9421	0.0126	0.0000	39.2570
Total	0.0196	0.1853	0.1913	4.4000e-004	0.0000	8.0400e-003	8.0400e-003	0.0000	7.3900e-003	7.3900e-003	0.0000	38.9421	38.9421	0.0126	0.0000	39.2570

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

3.2 Mobilization - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	5.2000e-004	5.4700e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3167	1.3167	5.0000e-005	5.0000e-005	1.3316
Total	7.2000e-004	5.2000e-004	5.4700e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3167	1.3167	5.0000e-005	5.0000e-005	1.3316

3.3 Berm removal and Replacement - 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					
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	0.0509	0.4044	0.6010	1.3800e-003		0.0167	0.0167		0.0153	0.0153	0.0000	120.9076	120.9076	0.0391	0.0000	121.8852
Total	0.0509	0.4044	0.6010	1.3800e-003	0.0000	0.0167	0.0167	0.0000	0.0153	0.0153	0.0000	120.9076	120.9076	0.0391	0.0000	121.8852

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

3.3 Berm removal and Replacement - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.3800e-003	9.8000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.5159	2.5159	1.0000e-004	9.0000e-005	2.5444
Total	1.3800e-003	9.8000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.5159	2.5159	1.0000e-004	9.0000e-005	2.5444

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	0.0509	0.4044	0.6010	1.3800e-003		0.0167	0.0167		0.0153	0.0153	0.0000	120.9074	120.9074	0.0391	0.0000	121.8850
Total	0.0509	0.4044	0.6010	1.3800e-003	0.0000	0.0167	0.0167	0.0000	0.0153	0.0153	0.0000	120.9074	120.9074	0.0391	0.0000	121.8850

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

3.3 Berm removal and Replacement - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.3800e-003	9.8000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.5159	2.5159	1.0000e-004	9.0000e-005	2.5444
Total	1.3800e-003	9.8000e-004	0.0105	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.5159	2.5159	1.0000e-004	9.0000e-005	2.5444

3.4 Stream Restoration - 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					
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	0.2803	2.3397	2.6444	6.6900e-003		0.0997	0.0997		0.0917	0.0917	0.0000	587.1141	587.1141	0.1899	0.0000	591.8612
Total	0.2803	2.3397	2.6444	6.6900e-003	0.0000	0.0997	0.0997	0.0000	0.0917	0.0917	0.0000	587.1141	587.1141	0.1899	0.0000	591.8612

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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 Stream Restoration - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0112	0.7766	0.1869	2.8900e-003	1.3610	5.9800e-003	1.3669	0.1501	5.7200e-003	0.1558	0.0000	297.8048	297.8048	0.0207	0.0477	312.5456
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	6.0800e-003	4.3400e-003	0.0461	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	7.0000e-005	3.9400e-003	0.0000	11.0982	11.0982	4.3000e-004	3.9000e-004	11.2237
Total	0.0173	0.7809	0.2330	3.0100e-003	1.3755	6.0500e-003	1.3816	0.1540	5.7900e-003	0.1598	0.0000	308.9030	308.9030	0.0211	0.0481	323.7693

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	0.2803	2.3397	2.6444	6.6900e-003		0.0997	0.0997		0.0917	0.0917	0.0000	587.1134	587.1134	0.1899	0.0000	591.8605
Total	0.2803	2.3397	2.6444	6.6900e-003	0.0000	0.0997	0.0997	0.0000	0.0917	0.0917	0.0000	587.1134	587.1134	0.1899	0.0000	591.8605

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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 Stream Restoration - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0112	0.7766	0.1869	2.8900e-003	1.3610	5.9800e-003	1.3669	0.1501	5.7200e-003	0.1558	0.0000	297.8048	297.8048	0.0207	0.0477	312.5456
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	6.0800e-003	4.3400e-003	0.0461	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	7.0000e-005	3.9400e-003	0.0000	11.0982	11.0982	4.3000e-004	3.9000e-004	11.2237
Total	0.0173	0.7809	0.2330	3.0100e-003	1.3755	6.0500e-003	1.3816	0.1540	5.7900e-003	0.1598	0.0000	308.9030	308.9030	0.0211	0.0481	323.7693

3.4 Stream Restoration - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0461	0.3683	0.4466	1.1300e-003		0.0155	0.0155		0.0142	0.0142	0.0000	99.5388	99.5388	0.0322	0.0000	100.3437
Total	0.0461	0.3683	0.4466	1.1300e-003	0.0000	0.0155	0.0155	0.0000	0.0142	0.0142	0.0000	99.5388	99.5388	0.0322	0.0000	100.3437

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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 Stream Restoration - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1278	0.0320	4.8000e-004	0.2307	9.9000e-004	0.2317	0.0254	9.5000e-004	0.0264	0.0000	49.6502	49.6502	3.6600e-003	7.9700e-003	52.1154
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	9.6000e-004	6.6000e-004	7.2600e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8220	1.8220	7.0000e-005	6.0000e-005	1.8417
Total	2.7900e-003	0.1284	0.0393	5.0000e-004	0.2331	1.0000e-003	0.2341	0.0261	9.6000e-004	0.0271	0.0000	51.4722	51.4722	3.7300e-003	8.0300e-003	53.9571

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	0.0461	0.3683	0.4466	1.1300e-003		0.0155	0.0155		0.0142	0.0142	0.0000	99.5387	99.5387	0.0322	0.0000	100.3435
Total	0.0461	0.3683	0.4466	1.1300e-003	0.0000	0.0155	0.0155	0.0000	0.0142	0.0142	0.0000	99.5387	99.5387	0.0322	0.0000	100.3435

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3.4 Stream Restoration - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8300e-003	0.1278	0.0320	4.8000e-004	0.2307	9.9000e-004	0.2317	0.0254	9.5000e-004	0.0264	0.0000	49.6502	49.6502	3.6600e-003	7.9700e-003	52.1154
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	9.6000e-004	6.6000e-004	7.2600e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8220	1.8220	7.0000e-005	6.0000e-005	1.8417
Total	2.7900e-003	0.1284	0.0393	5.0000e-004	0.2331	1.0000e-003	0.2341	0.0261	9.6000e-004	0.0271	0.0000	51.4722	51.4722	3.7300e-003	8.0300e-003	53.9571

3.5 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0806	0.6445	0.7816	1.9800e-003		0.0271	0.0271		0.0249	0.0249	0.0000	174.1930	174.1930	0.0563	0.0000	175.6014
Total	0.0806	0.6445	0.7816	1.9800e-003	0.0000	0.0271	0.0271	0.0000	0.0249	0.0249	0.0000	174.1930	174.1930	0.0563	0.0000	175.6014

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3.5 Demobilization - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.6900e-003	1.1500e-003	0.0127	3.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.1884	3.1884	1.2000e-004	1.1000e-004	3.2229
Total	1.6900e-003	1.1500e-003	0.0127	3.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.1884	3.1884	1.2000e-004	1.1000e-004	3.2229

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	0.0806	0.6445	0.7816	1.9800e-003		0.0271	0.0271		0.0249	0.0249	0.0000	174.1928	174.1928	0.0563	0.0000	175.6012
Total	0.0806	0.6445	0.7816	1.9800e-003	0.0000	0.0271	0.0271	0.0000	0.0249	0.0249	0.0000	174.1928	174.1928	0.0563	0.0000	175.6012

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

3.5 Demobilization - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.6900e-003	1.1500e-003	0.0127	3.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.1884	3.1884	1.2000e-004	1.1000e-004	3.2229
Total	1.6900e-003	1.1500e-003	0.0127	3.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.1884	3.1884	1.2000e-004	1.1000e-004	3.2229

3.6 Rock Crushing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0275	0.2106	0.3081	6.8000e-004		8.7100e-003	8.7100e-003		8.1400e-003	8.1400e-003	0.0000	59.4956	59.4956	0.0172	0.0000	59.9263
Total	0.0275	0.2106	0.3081	6.8000e-004	0.0000	8.7100e-003	8.7100e-003	0.0000	8.1400e-003	8.1400e-003	0.0000	59.4956	59.4956	0.0172	0.0000	59.9263

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3.6 Rock Crushing - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.8000e-004	5.3000e-004	5.9000e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	5.0000e-005	5.0000e-005	1.4964
Total	7.8000e-004	5.3000e-004	5.9000e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	5.0000e-005	5.0000e-005	1.4964

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	0.0275	0.2106	0.3081	6.8000e-004		8.7100e-003	8.7100e-003		8.1400e-003	8.1400e-003	0.0000	59.4955	59.4955	0.0172	0.0000	59.9262
Total	0.0275	0.2106	0.3081	6.8000e-004	0.0000	8.7100e-003	8.7100e-003	0.0000	8.1400e-003	8.1400e-003	0.0000	59.4955	59.4955	0.0172	0.0000	59.9262

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3.6 Rock Crushing - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.8000e-004	5.3000e-004	5.9000e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	5.0000e-005	5.0000e-005	1.4964
Total	7.8000e-004	5.3000e-004	5.9000e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	5.0000e-005	5.0000e-005	1.4964

3.7 Berm Repair - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0212	0.1590	0.2259	5.9000e-004		6.1700e-003	6.1700e-003		5.6700e-003	5.6700e-003	0.0000	51.4322	51.4322	0.0166	0.0000	51.8480
Total	0.0212	0.1590	0.2259	5.9000e-004	0.0000	6.1700e-003	6.1700e-003	0.0000	5.6700e-003	5.6700e-003	0.0000	51.4322	51.4322	0.0166	0.0000	51.8480

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

3.7 Berm Repair - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	5.5000e-004	3.7000e-004	4.1400e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0385	1.0385	4.0000e-005	3.0000e-005	1.0498
Total	5.5000e-004	3.7000e-004	4.1400e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0385	1.0385	4.0000e-005	3.0000e-005	1.0498

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	0.0212	0.1590	0.2259	5.9000e-004		6.1700e-003	6.1700e-003		5.6700e-003	5.6700e-003	0.0000	51.4321	51.4321	0.0166	0.0000	51.8480
Total	0.0212	0.1590	0.2259	5.9000e-004	0.0000	6.1700e-003	6.1700e-003	0.0000	5.6700e-003	5.6700e-003	0.0000	51.4321	51.4321	0.0166	0.0000	51.8480

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

3.7 Berm Repair - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	5.5000e-004	3.7000e-004	4.1400e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0385	1.0385	4.0000e-005	3.0000e-005	1.0498
Total	5.5000e-004	3.7000e-004	4.1400e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0385	1.0385	4.0000e-005	3.0000e-005	1.0498

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0100e-003	0.0707	0.0177	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4759	27.4759	2.0200e-003	4.4100e-003	28.8401
Unmitigated	1.0100e-003	0.0707	0.0177	2.7000e-004	7.7700e-003	5.5000e-004	8.3200e-003	2.1300e-003	5.3000e-004	2.6600e-003	0.0000	27.4759	27.4759	2.0200e-003	4.4100e-003	28.8401

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	1.81	1.81	1.81	18,228	18,228
Total	1.81	1.81	1.81	18,228	18,228

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	6.60	27.60	6.40	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

5.3 Energy by Land Use - Electricity

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Unmitigated	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	0.0125	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

7.2 Water by Land Use

Unmitigated

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

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

7.2 Water by Land Use

Mitigated

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mission Creek - Santa Barbara County APCD Air District, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

**Mission Creek Stream Habitat Restoration Project
Energy Calculations**

WORKER TRIPS							
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Mobilization	14	40	8.3	4648	24.90284233	186.65	
Berm removal and Replacem	107	10	8.3	8881	24.90284233	356.63	
Stream Restoration	138	40	8.3	45816	24.90284233	1839.79	
Demobilization	35	40	8.3	11620	24.90284233	466.61	
Rock Crushing	50	13	8.3	5395	24.90284233	216.64	
Berm Repair	57	8	8.3	3785	24.90284233	151.98	
						3218.30	
VENDOR TRIPS							
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Mobilization	14	0	6.4	0	8.343886151	0.00	
Berm removal and Replacem	107	0	6.4	0	8.343886151	0.00	
Stream Restoration	138	0	6.4	0	8.343886151	0.00	
Demobilization	35	0	6.4	0	8.343886151	0.00	
Rock Crushing	50	0	6.4	0	8.343886151	0.00	
Berm Repair	57	0	6.4	0	8.343886151	0.00	
						0.00	
HAULING TRIPS							
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)¹	Total Fuel Consumption	
Mobilization	14	0	27.6	0	8.343886151	0.00	
Berm removal and Replacem	107	0	27.6	0	8.343886151	0.00	
Stream Restoration	138	8196	27.6	226209.6	8.343886151	27110.82	
Demobilization	35	0	27.6	0	8.343886151	0.00	
Rock Crushing	50	0	27.6	0	8.343886151	0.00	
Berm Repair	57	0	27.6	0	8.343886151	0.00	
						27110.82	
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						30329.12	
2023 On-road					19044033	0.1593%	

**Mission Creek Stream Habitat Restoration Project
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Mobilization	Excavators	2	8	187	0.41	3.0668	16	14	686.96
Mobilization	Forklifts	1	8	367	0.48	7.0464	8	14	789.20
Mobilization	Off-Highway Trucks	5	8	97	0.37	1.4356	40	14	803.94
Mobilization	Other Construction Equipment	3	8	172	0.42	2.8896	24	14	970.91
Mobilization	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	14	327.40
Mobilization	Skid Steer Loaders	2	8	65	0.37	0.962	16	14	215.49
Mobilization	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	14	321.57
Berm Removal and Replacement	Excavators	2	8	158	0.38	2.4016	16	107	4111.54
Berm Removal and Replacement	Off-Highway Trucks	1	8	402	0.38	6.1104	8	107	5230.50
Berm Removal and Replacement	Skid Steer Loaders	1	8	65	0.37	0.962	8	107	823.47
Stream Restoration	Excavators	2	8	187	0.41	3.0668	16	138	6771.49
Stream Restoration	Forklifts	1	8	367	0.48	7.0464	8	138	7779.23
Stream Restoration	Off-Highway Trucks	5	8	97	0.37	1.4356	40	138	7924.51
Stream Restoration	Rubber Tired Loaders	3	8	172	0.42	2.8896	24	138	9570.36
Stream Restoration	Skid Steer Loaders	1	8	203	0.36	2.9232	8	138	3227.21
Stream Restoration	Sweepers/Scrubbers	2	8	65	0.37	0.962	16	138	2124.10
Stream Restoration	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	138	3169.80
Demobilization	Excavators	2	8	187	0.41	3.0668	16	35	1717.41
Demobilization	Forklifts	1	8	367	0.48	7.0464	8	35	1972.99
Demobilization	Off-Highway Trucks	5	8	97	0.37	1.4356	40	35	2009.84
Demobilization	Rubber Tired Loaders	3	8	172	0.42	2.8896	24	35	2427.26
Demobilization	Skid Steer Loaders	1	8	203	0.36	2.9232	8	35	818.50
Demobilization	Sweepers/Scrubbers	2	8	65	0.37	0.962	16	35	538.72
Demobilization	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	35	803.94
Rock Crushing	Crushing/Proc. Equipment	1	4	85	0.78	2.652	4	50	530.40
Rock Crushing	Excavators	1	8	158	0.38	2.4016	8	50	960.64
Rock Crushing	Off-Highway Trucks	1	8	402	0.38	6.1104	8	50	2444.16
Rock Crushing	Skid Steer Loaders	1	8	65	0.37	0.962	8	50	384.80
Rock Crushing	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	50	574.24
Berm Repair	Excavators	1	8	158	0.38	2.4016	8	57	1095.13
Berm Repair	Off-Highway Trucks	1	8	402	0.38	6.1104	8	57	2786.34
Berm Repair	Skid Steer Loaders	1	8	65	0.37	0.962	8	57	438.67

Total: 60,070

Notes:

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

**Mission Creek Stream Habitat Restoration Project
Energy Calculations**

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon) ³	Total Annual Fuel Consumption (gallons) ⁴
Passenger Cars	0.00	0	0	22	0
Light/Medium Trucks	0.00	0	0	17.3	0
Heavy Trucks/Other	1.00	2	18,228	6.4	2,848
TOTAL ⁶	1.00	2	18,228	--	2,848

County Total
171,847,015
0.0017%

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips taken from ITE manual.
3. Average fuel economy derived from the Department of Transportation.
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

