
APPENDIX D
***Air Quality Pollutant Emissions,
Greenhouse Gas Emissions, and
Energy Calculations***

CalEEMod Output Files

McAllister Ranch - Kern-San Joaquin County, Annual

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

**McAllister Ranch
Kern-San Joaquin County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	2,070.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	3			Operational Year	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Entered lot acreage of 2070
- Construction Phase - Construction length in project description
- Off-road Equipment - Construction Equipment provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - no Equipment for pump phase
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Grading - Applicant provided material imported

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	6,000.00	140.00
tblConstructionPhase	NumDays	6,000.00	18.00
tblConstructionPhase	NumDays	10,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	338.00
tblConstructionPhase	NumDays	6,000.00	75.00
tblConstructionPhase	NumDays	6,000.00	925.00
tblConstructionPhase	NumDays	6,000.00	142.00
tblConstructionPhase	NumDays	6,000.00	98.00
tblConstructionPhase	PhaseEndDate	3/12/2821	7/12/2024
tblConstructionPhase	PhaseEndDate	11/13/2736	1/25/2023
tblConstructionPhase	PhaseEndDate	4/30/2060	6/17/2022
tblConstructionPhase	PhaseEndDate	9/28/2142	4/17/2024
tblConstructionPhase	PhaseEndDate	1/12/2779	4/12/2024
tblConstructionPhase	PhaseEndDate	4/30/2083	7/17/2026
tblConstructionPhase	PhaseStartDate	1/13/2779	1/1/2024
tblConstructionPhase	PhaseStartDate	9/29/2142	1/2/2023
tblConstructionPhase	PhaseStartDate	5/1/2083	1/2/2023
tblConstructionPhase	PhaseStartDate	11/14/2736	1/1/2024
tblConstructionPhase	PhaseStartDate	5/1/2060	1/2/2023
tblEnergyUse	NT24E	0.00	34,752,101.00
tblGrading	MaterialImported	0.00	925.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	300.00

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tblLandUse	LotAcreage	0.00	2,070.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

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tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblTripsAndVMT	HaulingTripNumber	116.00	0.00
tblTripsAndVMT	HaulingTripNumber	563.00	0.00
tblTripsAndVMT	HaulingTripNumber	125.00	0.00
tblTripsAndVMT	HaulingTripNumber	38.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00

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tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	WorkerTripNumber	5.00	19.50
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	3.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	0.00
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tblVehicleTrips	CNW_TTP	0.00	25.00
tblVehicleTrips	CW_TTP	0.00	75.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	8.00
tblVehicleTrips	SU_TR	0.00	8.00
tblVehicleTrips	WD_TR	0.00	8.00

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					
2022	0.0322	0.3245	0.3878	1.1100e-003	0.0302	0.0126	0.0428	8.7500e-003	0.0116	0.0204	0.0000	101.7017	101.7017	0.0147	7.0500e-003	104.1678
2023	0.3580	3.3654	3.0092	8.2500e-003	0.3933	0.1274	0.5207	0.0783	0.1192	0.1975	0.0000	726.1315	726.1315	0.1695	0.0147	734.7369
2024	0.3342	3.0301	3.0480	7.8200e-003	0.3724	0.1224	0.4948	0.0522	0.1144	0.1666	0.0000	688.1541	688.1541	0.1568	0.0146	696.4088
2025	0.1804	1.4140	1.9387	5.3300e-003	0.0658	0.0484	0.1141	0.0190	0.0461	0.0651	0.0000	468.5145	468.5145	0.0861	0.0142	474.9128
2026	0.2161	1.8099	2.0259	6.1900e-003	0.3816	0.0652	0.4468	0.1825	0.0614	0.2439	0.0000	544.7271	544.7271	0.1169	0.0129	551.4864
Maximum	0.3580	3.3654	3.0480	8.2500e-003	0.3933	0.1274	0.5207	0.1825	0.1192	0.2439	0.0000	726.1315	726.1315	0.1695	0.0147	734.7369

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0163	0.1441	0.4338	1.1100e-003	0.0302	2.8500e-003	0.0331	8.7500e-003	2.7600e-003	0.0115	0.0000	101.7017	101.7017	0.0147	7.0500e-003	104.1677
2023	0.1010	0.6849	3.7454	8.2500e-003	0.3933	0.0131	0.4064	0.0783	0.0130	0.0913	0.0000	726.1308	726.1308	0.1695	0.0147	734.7362
2024	0.0951	0.6658	3.7795	7.8200e-003	0.3724	0.0124	0.3848	0.0522	0.0124	0.0646	0.0000	688.1534	688.1534	0.1568	0.0146	696.4082
2025	0.0640	0.5335	2.4310	5.3300e-003	0.0658	8.3600e-003	0.0741	0.0190	8.3100e-003	0.0274	0.0000	468.5141	468.5141	0.0861	0.0142	474.9123
2026	0.0728	0.5496	2.7556	6.1900e-003	0.3816	9.4000e-003	0.3910	0.1825	9.3600e-003	0.1919	0.0000	544.7266	544.7266	0.1169	0.0129	551.4859
Maximum	0.1010	0.6849	3.7795	8.2500e-003	0.3933	0.0131	0.4064	0.1825	0.0130	0.1919	0.0000	726.1308	726.1308	0.1695	0.0147	734.7362

	ROG	NOx	CO	SO2	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	68.85	74.07	-26.28	0.00	0.00	87.74	20.37	0.00	87.01	44.25	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	1-3-2022	4-2-2022	0.1922	0.0870
2	4-3-2022	7-2-2022	0.1589	0.0701
4	10-3-2022	1-2-2023	0.0128	0.0024
5	1-3-2023	4-2-2023	0.9682	0.1985
6	4-3-2023	7-2-2023	0.9113	0.1933
7	7-3-2023	10-2-2023	0.9214	0.1954
8	10-3-2023	1-2-2024	0.9343	0.1993

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9	1-3-2024	4-2-2024	1.3743	0.2449
10	4-3-2024	7-2-2024	1.0195	0.2033
11	7-3-2024	10-2-2024	0.4906	0.1539
12	10-3-2024	1-2-2025	0.4354	0.1514
13	1-3-2025	4-2-2025	0.3935	0.1480
14	4-3-2025	7-2-2025	0.3951	0.1468
15	7-3-2025	10-2-2025	0.3995	0.1485
16	10-3-2025	1-2-2026	0.4182	0.1554
17	1-3-2026	4-2-2026	1.1113	0.3333
18	4-3-2026	7-2-2026	1.1180	0.3314
19	7-3-2026	9-30-2026	0.6867	0.1840
		Highest	1.3743	0.3333

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-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	3.8600e-003	8.1000e-003	0.0376	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952
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	3.8600e-003	8.1000e-003	0.0377	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952

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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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-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	3.8600e-003	8.1000e-003	0.0376	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952
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	3.8600e-003	8.1000e-003	0.0377	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	6/17/2022	5	120	
2	Control Structures	Site Preparation	1/2/2023	7/17/2026	5	925	
3	Ponds	Site Preparation	1/2/2023	4/17/2024	5	338	

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4	Canal Improvements	Site Preparation	1/2/2023	1/25/2023	5	18
5	Pumps	Site Preparation	1/1/2024	4/12/2024	5	75
6	Pipelines	Site Preparation	1/1/2024	7/12/2024	5	140
7	Wells	Site Preparation	1/1/2026	7/17/2026	5	142
8	Wells no other activity	Site Preparation	7/20/2026	12/2/2026	5	98

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipelines	Air Compressors	0	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Canal Improvements	Cranes	0	7.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Ponds	Excavators	0	8.00	158	0.38
Canal Improvements	Forklifts	0	8.00	89	0.20
Canal Improvements	Generator Sets	0	8.00	84	0.74
Ponds	Graders	1	8.00	187	0.41
Pumps	Pavers	0	8.00	130	0.42
Pumps	Paving Equipment	0	8.00	132	0.36
Pumps	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Rubber Tired Dozers	0	8.00	247	0.40
Control Structures	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Scrapers	1	8.00	367	0.48

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Canal Improvements	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Ponds	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Control Structures	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Canal Improvements	Welders	0	8.00	46	0.45
Canal Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Pumps	Rubber Tired Dozers	0	8.00	247	0.40
Pipelines	Rubber Tired Dozers	0	8.00	247	0.40
Wells	Rubber Tired Dozers	0	8.00	247	0.40
Pumps	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipelines	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wells	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Control Structures	Excavators	1	8.00	158	0.38
Control Structures	Generator Sets	1	8.00	84	0.74
Control Structures	Off-Highway Trucks	1	8.00	402	0.38
Control Structures	Plate Compactors	1	8.00	8	0.43
Control Structures	Welders	1	8.00	46	0.45
Pipelines	Cranes	1	8.00	231	0.29
Pipelines	Forklifts	1	8.00	89	0.20
Pipelines	Graders	1	8.00	187	0.41
Pipelines	Rollers	1	8.00	80	0.38
Pipelines	Trenchers	1	8.00	78	0.50
Wells	Bore/Drill Rigs	1	8.00	221	0.50
Wells	Forklifts	1	8.00	89	0.20
Wells	Generator Sets	0	8.00	84	0.74
Wells	Off-Highway Trucks	0	8.00	402	0.38
Wells	Welders	0	8.00	46	0.45
Wells no other activity	Rubber Tired Dozers	1	8.00	247	0.40
Wells no other activity	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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Wells no other activity	Bore/Drill Rigs	1	8.00	221	0.50
Wells no other activity	Forklifts	1	8.00	89	0.20
Wells no other activity	Generator Sets	1	8.00	84	0.74
Wells no other activity	Off-Highway Trucks	1	8.00	402	0.38
Wells no other activity	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Control Structures	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Ponds	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Canal Improvements	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pumps	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipelines	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wells	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wells no other activity	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

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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 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2068	0.3290	5.0000e-004		0.0105	0.0105		9.7000e-003	9.7000e-003	0.0000	43.5467	43.5467	0.0141	0.0000	43.8988
Total	0.0220	0.2068	0.3290	5.0000e-004		0.0105	0.0105		9.7000e-003	9.7000e-003	0.0000	43.5467	43.5467	0.0141	0.0000	43.8988

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	6.4600e-003	0.1151	0.0283	5.3000e-004	0.0208	1.9800e-003	0.0228	6.2400e-003	1.9000e-003	8.1400e-003	0.0000	50.3081	50.3081	3.1000e-004	6.8100e-003	52.3459
Worker	3.7200e-003	2.7000e-003	0.0305	9.0000e-005	9.4300e-003	5.0000e-005	9.4800e-003	2.5000e-003	5.0000e-005	2.5500e-003	0.0000	7.8470	7.8470	2.5000e-004	2.3000e-004	7.9231
Total	0.0102	0.1178	0.0588	6.2000e-004	0.0302	2.0300e-003	0.0322	8.7400e-003	1.9500e-003	0.0107	0.0000	58.1550	58.1550	5.6000e-004	7.0400e-003	60.2690

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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 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0800e-003	0.0264	0.3750	5.0000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	43.5466	43.5466	0.0141	0.0000	43.8987
Total	6.0800e-003	0.0264	0.3750	5.0000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	43.5466	43.5466	0.0141	0.0000	43.8987

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	6.4600e-003	0.1151	0.0283	5.3000e-004	0.0208	1.9800e-003	0.0228	6.2400e-003	1.9000e-003	8.1400e-003	0.0000	50.3081	50.3081	3.1000e-004	6.8100e-003	52.3459
Worker	3.7200e-003	2.7000e-003	0.0305	9.0000e-005	9.4300e-003	5.0000e-005	9.4800e-003	2.5000e-003	5.0000e-005	2.5500e-003	0.0000	7.8470	7.8470	2.5000e-004	2.3000e-004	7.9231
Total	0.0102	0.1178	0.0588	6.2000e-004	0.0302	2.0300e-003	0.0322	8.7400e-003	1.9500e-003	0.0107	0.0000	58.1550	58.1550	5.6000e-004	7.0400e-003	60.2690

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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 Control Structures - 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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1882	1.4385	1.8679	4.0600e-003		0.0617	0.0617		0.0588	0.0588	0.0000	348.5495	348.5495	0.0861	0.0000	350.7010
Total	0.1882	1.4385	1.8679	4.0600e-003	7.0000e-005	0.0617	0.0618	1.0000e-005	0.0588	0.0588	0.0000	348.5495	348.5495	0.0861	0.0000	350.7010

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0400e-003	0.1759	0.0351	1.1100e-003	0.0450	8.4000e-004	0.0459	0.0135	8.0000e-004	0.0143	0.0000	105.4150	105.4150	2.4000e-004	0.0142	109.6498
Worker	7.4000e-003	5.1300e-003	0.0605	1.8000e-004	0.0204	1.1000e-004	0.0205	5.4300e-003	1.0000e-004	5.5300e-003	0.0000	16.4579	16.4579	4.9000e-004	4.7000e-004	16.6096
Total	0.0114	0.1810	0.0955	1.2900e-003	0.0655	9.5000e-004	0.0664	0.0190	9.0000e-004	0.0199	0.0000	121.8729	121.8729	7.3000e-004	0.0147	126.2594

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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 Control Structures - 2023

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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0538	0.3491	2.3400	4.0600e-003		7.3700e-003	7.3700e-003		7.3700e-003	7.3700e-003	0.0000	348.5491	348.5491	0.0861	0.0000	350.7006
Total	0.0538	0.3491	2.3400	4.0600e-003	7.0000e-005	7.3700e-003	7.4400e-003	1.0000e-005	7.3700e-003	7.3800e-003	0.0000	348.5491	348.5491	0.0861	0.0000	350.7006

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0400e-003	0.1759	0.0351	1.1100e-003	0.0450	8.4000e-004	0.0459	0.0135	8.0000e-004	0.0143	0.0000	105.4150	105.4150	2.4000e-004	0.0142	109.6498
Worker	7.4000e-003	5.1300e-003	0.0605	1.8000e-004	0.0204	1.1000e-004	0.0205	5.4300e-003	1.0000e-004	5.5300e-003	0.0000	16.4579	16.4579	4.9000e-004	4.7000e-004	16.6096
Total	0.0114	0.1810	0.0955	1.2900e-003	0.0655	9.5000e-004	0.0664	0.0190	9.0000e-004	0.0199	0.0000	121.8729	121.8729	7.3000e-004	0.0147	126.2594

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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 Control Structures - 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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1815	1.3597	1.8761	4.0900e-003		0.0556	0.0556		0.0529	0.0529	0.0000	351.3276	351.3276	0.0863	0.0000	353.4855
Total	0.1815	1.3597	1.8761	4.0900e-003	7.0000e-005	0.0556	0.0557	1.0000e-005	0.0529	0.0529	0.0000	351.3276	351.3276	0.0863	0.0000	353.4855

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8200e-003	0.1788	0.0323	1.1000e-003	0.0454	8.6000e-004	0.0462	0.0136	8.2000e-004	0.0145	0.0000	104.9219	104.9219	2.2000e-004	0.0141	109.1320
Worker	6.8900e-003	4.5700e-003	0.0564	1.7000e-004	0.0206	1.1000e-004	0.0207	5.4700e-003	1.0000e-004	5.5700e-003	0.0000	16.0427	16.0427	4.5000e-004	4.4000e-004	16.1840
Total	0.0107	0.1834	0.0887	1.2700e-003	0.0660	9.7000e-004	0.0669	0.0191	9.2000e-004	0.0200	0.0000	120.9646	120.9646	6.7000e-004	0.0146	125.3161

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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 Control Structures - 2024

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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0542	0.3518	2.3580	4.0900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	351.3271	351.3271	0.0863	0.0000	353.4851
Total	0.0542	0.3518	2.3580	4.0900e-003	7.0000e-005	7.4300e-003	7.5000e-003	1.0000e-005	7.4300e-003	7.4400e-003	0.0000	351.3271	351.3271	0.0863	0.0000	353.4851

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8200e-003	0.1788	0.0323	1.1000e-003	0.0454	8.6000e-004	0.0462	0.0136	8.2000e-004	0.0145	0.0000	104.9219	104.9219	2.2000e-004	0.0141	109.1320
Worker	6.8900e-003	4.5700e-003	0.0564	1.7000e-004	0.0206	1.1000e-004	0.0207	5.4700e-003	1.0000e-004	5.5700e-003	0.0000	16.0427	16.0427	4.5000e-004	4.4000e-004	16.1840
Total	0.0107	0.1834	0.0887	1.2700e-003	0.0660	9.7000e-004	0.0669	0.0191	9.2000e-004	0.0200	0.0000	120.9646	120.9646	6.7000e-004	0.0146	125.3161

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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 Control Structures - 2025

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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1705	1.2309	1.8568	4.0700e-003		0.0474	0.0474		0.0451	0.0451	0.0000	349.9491	349.9491	0.0855	0.0000	352.0878
Total	0.1705	1.2309	1.8568	4.0700e-003	7.0000e-005	0.0474	0.0475	1.0000e-005	0.0451	0.0452	0.0000	349.9491	349.9491	0.0855	0.0000	352.0878

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-003	0.1790	0.0297	1.0800e-003	0.0452	8.6000e-004	0.0461	0.0136	8.2000e-004	0.0144	0.0000	103.1255	103.1255	2.0000e-004	0.0138	107.2542
Worker	6.3600e-003	4.0600e-003	0.0522	1.7000e-004	0.0205	1.0000e-004	0.0206	5.4500e-003	9.0000e-005	5.5400e-003	0.0000	15.4399	15.4399	4.0000e-004	4.1000e-004	15.5708
Total	9.9600e-003	0.1831	0.0819	1.2500e-003	0.0657	9.6000e-004	0.0667	0.0190	9.1000e-004	0.0199	0.0000	118.5654	118.5654	6.0000e-004	0.0143	122.8250

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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 Control Structures - 2025

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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0540	0.3505	2.3490	4.0700e-003		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	349.9487	349.9487	0.0855	0.0000	352.0873
Total	0.0540	0.3505	2.3490	4.0700e-003	7.0000e-005	7.4000e-003	7.4700e-003	1.0000e-005	7.4000e-003	7.4100e-003	0.0000	349.9487	349.9487	0.0855	0.0000	352.0873

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-003	0.1790	0.0297	1.0800e-003	0.0452	8.6000e-004	0.0461	0.0136	8.2000e-004	0.0144	0.0000	103.1255	103.1255	2.0000e-004	0.0138	107.2542
Worker	6.3600e-003	4.0600e-003	0.0522	1.7000e-004	0.0205	1.0000e-004	0.0206	5.4500e-003	9.0000e-005	5.5400e-003	0.0000	15.4399	15.4399	4.0000e-004	4.1000e-004	15.5708
Total	9.9600e-003	0.1831	0.0819	1.2500e-003	0.0657	9.6000e-004	0.0667	0.0190	9.1000e-004	0.0199	0.0000	118.5654	118.5654	6.0000e-004	0.0143	122.8250

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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 Control Structures - 2026

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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0928	0.6697	1.0102	2.2200e-003		0.0258	0.0258		0.0246	0.0246	0.0000	190.3938	190.3938	0.0465	0.0000	191.5573
Total	0.0928	0.6697	1.0102	2.2200e-003	7.0000e-005	0.0258	0.0259	1.0000e-005	0.0246	0.0246	0.0000	190.3938	190.3938	0.0465	0.0000	191.5573

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	1.8600e-003	0.0976	0.0151	5.8000e-004	0.0246	4.7000e-004	0.0251	7.3900e-003	4.5000e-004	7.8400e-003	0.0000	55.3553	55.3553	1.0000e-004	7.4100e-003	57.5660
Worker	3.2300e-003	1.9900e-003	0.0266	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003	0.0000	8.1194	8.1194	2.0000e-004	2.1000e-004	8.1861
Total	5.0900e-003	0.0996	0.0417	6.7000e-004	0.0358	5.2000e-004	0.0363	0.0104	5.0000e-004	0.0109	0.0000	63.4747	63.4747	3.0000e-004	7.6200e-003	65.7521

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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 Control Structures - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0294	0.1907	1.2780	2.2200e-003		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	190.3936	190.3936	0.0465	0.0000	191.5571
Total	0.0294	0.1907	1.2780	2.2200e-003	7.0000e-005	4.0300e-003	4.1000e-003	1.0000e-005	4.0300e-003	4.0400e-003	0.0000	190.3936	190.3936	0.0465	0.0000	191.5571

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	1.8600e-003	0.0976	0.0151	5.8000e-004	0.0246	4.7000e-004	0.0251	7.3900e-003	4.5000e-004	7.8400e-003	0.0000	55.3553	55.3553	1.0000e-004	7.4100e-003	57.5660
Worker	3.2300e-003	1.9900e-003	0.0266	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003	0.0000	8.1194	8.1194	2.0000e-004	2.1000e-004	8.1861
Total	5.0900e-003	0.0996	0.0417	6.7000e-004	0.0358	5.2000e-004	0.0363	0.0104	5.0000e-004	0.0109	0.0000	63.4747	63.4747	3.0000e-004	7.6200e-003	65.7521

McAllister Ranch - Kern-San Joaquin County, Annual

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

3.9 Wells no other activity - 2026

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					0.3211	0.0000	0.3211	0.1650	0.0000	0.1650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0937	0.7814	0.7201	2.0600e-003		0.0311	0.0311		0.0292	0.0292	0.0000	178.4374	178.4374	0.0477	0.0000	179.6291
Total	0.0937	0.7814	0.7201	2.0600e-003	0.3211	0.0311	0.3522	0.1650	0.0292	0.1942	0.0000	178.4374	178.4374	0.0477	0.0000	179.6291

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	1.2800e-003	0.0674	0.0104	4.0000e-004	0.0170	3.2000e-004	0.0173	5.1000e-003	3.1000e-004	5.4100e-003	0.0000	38.2029	38.2029	7.0000e-005	5.1100e-003	39.7286
Worker	2.2300e-003	1.3700e-003	0.0184	6.0000e-005	7.7000e-003	4.0000e-005	7.7400e-003	2.0500e-003	3.0000e-005	2.0800e-003	0.0000	5.6035	5.6035	1.4000e-004	1.4000e-004	5.6496
Total	3.5100e-003	0.0687	0.0288	4.6000e-004	0.0247	3.6000e-004	0.0250	7.1500e-003	3.4000e-004	7.4900e-003	0.0000	43.8065	43.8065	2.1000e-004	5.2500e-003	45.3782

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

3.9 Wells no other activity - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3211	0.0000	0.3211	0.1650	0.0000	0.1650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0251	0.1488	1.0202	2.0600e-003		3.2100e-003	3.2100e-003		3.2100e-003	3.2100e-003	0.0000	178.4372	178.4372	0.0477	0.0000	179.6289
Total	0.0251	0.1488	1.0202	2.0600e-003	0.3211	3.2100e-003	0.3243	0.1650	3.2100e-003	0.1682	0.0000	178.4372	178.4372	0.0477	0.0000	179.6289

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	1.2800e-003	0.0674	0.0104	4.0000e-004	0.0170	3.2000e-004	0.0173	5.1000e-003	3.1000e-004	5.4100e-003	0.0000	38.2029	38.2029	7.0000e-005	5.1100e-003	39.7286
Worker	2.2300e-003	1.3700e-003	0.0184	6.0000e-005	7.7000e-003	4.0000e-005	7.7400e-003	2.0500e-003	3.0000e-005	2.0800e-003	0.0000	5.6035	5.6035	1.4000e-004	1.4000e-004	5.6496
Total	3.5100e-003	0.0687	0.0288	4.6000e-004	0.0247	3.6000e-004	0.0250	7.1500e-003	3.4000e-004	7.4900e-003	0.0000	43.8065	43.8065	2.1000e-004	5.2500e-003	45.3782

McAllister Ranch - Kern-San Joaquin County, Annual

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8600e-003	8.1000e-003	0.0376	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952
Unmitigated	3.8600e-003	8.1000e-003	0.0376	1.0000e-004	9.8800e-003	9.0000e-005	9.9700e-003	2.6400e-003	9.0000e-005	2.7300e-003	0.0000	9.1223	9.1223	4.3000e-004	5.4000e-004	9.2952

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	8.00	8.00	8.00	26,062	26,062
Total	8.00	8.00	8.00	26,062	26,062

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
User Defined Industrial	9.50	7.30	7.30	75.00	0.00	25.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.491744	0.054986	0.180747	0.153452	0.027634	0.008574	0.014177	0.038442	0.000573	0.000231	0.024179	0.001379	0.003882

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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			
User Defined Industrial	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			
User Defined Industrial	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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-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			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

McAllister Ranch - Kern-San Joaquin County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	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			
User Defined Industrial	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			
User Defined Industrial	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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McAllister Ranch - Kern-San Joaquin County, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

McAllister Ranch - Kern-San Joaquin County, Summer

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

**McAllister Ranch
Kern-San Joaquin County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	2,070.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	3			Operational Year	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Entered lot acreage of 2070
- Construction Phase - Construction length in project description
- Off-road Equipment - Construction Equipment provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - no Equipment for pump phase
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Grading - Applicant provided material imported

McAllister Ranch - Kern-San Joaquin County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	6,000.00	140.00
tblConstructionPhase	NumDays	6,000.00	18.00
tblConstructionPhase	NumDays	10,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	338.00
tblConstructionPhase	NumDays	6,000.00	75.00
tblConstructionPhase	NumDays	6,000.00	925.00
tblConstructionPhase	NumDays	6,000.00	142.00
tblConstructionPhase	NumDays	6,000.00	98.00
tblConstructionPhase	PhaseEndDate	3/12/2821	7/12/2024
tblConstructionPhase	PhaseEndDate	11/13/2736	1/25/2023
tblConstructionPhase	PhaseEndDate	4/30/2060	6/17/2022
tblConstructionPhase	PhaseEndDate	9/28/2142	4/17/2024
tblConstructionPhase	PhaseEndDate	1/12/2779	4/12/2024
tblConstructionPhase	PhaseEndDate	4/30/2083	7/17/2026
tblConstructionPhase	PhaseStartDate	1/13/2779	1/1/2024
tblConstructionPhase	PhaseStartDate	9/29/2142	1/2/2023
tblConstructionPhase	PhaseStartDate	5/1/2083	1/2/2023
tblConstructionPhase	PhaseStartDate	11/14/2736	1/1/2024
tblConstructionPhase	PhaseStartDate	5/1/2060	1/2/2023
tblEnergyUse	NT24E	0.00	34,752,101.00
tblGrading	MaterialImported	0.00	925.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	300.00

McAllister Ranch - Kern-San Joaquin County, Summer

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

tblLandUse	LotAcreage	0.00	2,070.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

McAllister Ranch - Kern-San Joaquin County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblTripsAndVMT	HaulingTripNumber	116.00	0.00
tblTripsAndVMT	HaulingTripNumber	563.00	0.00
tblTripsAndVMT	HaulingTripNumber	125.00	0.00
tblTripsAndVMT	HaulingTripNumber	38.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00

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

tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	WorkerTripNumber	5.00	19.50
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	3.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	0.00
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tbIVehicleTrips	CNW_TTP	0.00	25.00
tbIVehicleTrips	CW_TTP	0.00	75.00
tbIVehicleTrips	PR_TP	0.00	100.00
tbIVehicleTrips	ST_TR	0.00	8.00
tbIVehicleTrips	SU_TR	0.00	8.00
tbIVehicleTrips	WD_TR	0.00	8.00

2.0 Emissions Summary

McAllister Ranch - Kern-San Joaquin County, 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					
2022	0.5479	5.3076	6.5517	0.0186	0.5117	0.2096	0.7213	0.1479	0.1940	0.3419	0.0000	1,882.081 3	1,882.081 3	0.2690	0.1291	1,927.272 7
2023	3.4014	32.4500	26.1175	0.0716	8.6550	1.2786	9.9335	3.6871	1.1920	4.8791	0.0000	6,939.957 0	6,939.957 0	1.6860	0.1239	7,019.043 5
2024	3.9990	38.1998	33.9197	0.0858	2.6428	1.5668	4.2096	0.3784	1.4551	1.8335	0.0000	8,320.284 1	8,320.284 1	2.1333	0.1221	8,409.999 8
2025	1.3917	10.7641	14.9209	0.0409	0.5119	0.3706	0.8825	0.1479	0.3529	0.5008	0.0000	3,969.639 2	3,969.639 2	0.7275	0.1200	4,023.594 8
2026	1.9918	17.2783	18.0453	0.0518	7.0641	0.6423	7.7063	3.5153	0.6020	4.1174	0.0000	5,018.459 4	5,018.459 4	1.0769	0.1180	5,080.412 7
Maximum	3.9990	38.1998	33.9197	0.0858	8.6550	1.5668	9.9335	3.6871	1.4551	4.8791	0.0000	8,320.284 1	8,320.284 1	2.1333	0.1291	8,409.999 8

McAllister Ranch - Kern-San Joaquin County, Summer

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

2.2 Overall Operational

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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	0.0256	0.0419	0.2239	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6913	58.6913	2.5400e-003	3.2300e-003	59.7164
Total	0.0256	0.0419	0.2240	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6915	58.6915	2.5400e-003	3.2300e-003	59.7167

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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	0.0256	0.0419	0.2239	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6913	58.6913	2.5400e-003	3.2300e-003	59.7164
Total	0.0256	0.0419	0.2240	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6915	58.6915	2.5400e-003	3.2300e-003	59.7167

McAllister Ranch - Kern-San Joaquin County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	6/17/2022	5	120	
2	Control Structures	Site Preparation	1/2/2023	7/17/2026	5	925	
3	Ponds	Site Preparation	1/2/2023	4/17/2024	5	338	
4	Canal Improvements	Site Preparation	1/2/2023	1/25/2023	5	18	
5	Pumps	Site Preparation	1/1/2024	4/12/2024	5	75	
6	Pipelines	Site Preparation	1/1/2024	7/12/2024	5	140	
7	Wells	Site Preparation	1/1/2026	7/17/2026	5	142	
8	Wells no other activity	Site Preparation	7/20/2026	12/2/2026	5	98	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipelines	Air Compressors	0	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Canal Improvements	Cranes	0	7.00	231	0.29

McAllister Ranch - Kern-San Joaquin County, Summer

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

Demolition	Excavators	1	8.00	158	0.38
Ponds	Excavators	0	8.00	158	0.38
Canal Improvements	Forklifts	0	8.00	89	0.20
Canal Improvements	Generator Sets	0	8.00	84	0.74
Ponds	Graders	1	8.00	187	0.41
Pumps	Pavers	0	8.00	130	0.42
Pumps	Paving Equipment	0	8.00	132	0.36
Pumps	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Rubber Tired Dozers	0	8.00	247	0.40
Control Structures	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Scrapers	1	8.00	367	0.48
Canal Improvements	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Ponds	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Control Structures	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Canal Improvements	Welders	0	8.00	46	0.45
Canal Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Pumps	Rubber Tired Dozers	0	8.00	247	0.40
Pipelines	Rubber Tired Dozers	0	8.00	247	0.40
Wells	Rubber Tired Dozers	0	8.00	247	0.40
Pumps	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipelines	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wells	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Control Structures	Excavators	1	8.00	158	0.38
Control Structures	Generator Sets	1	8.00	84	0.74
Control Structures	Off-Highway Trucks	1	8.00	402	0.38
Control Structures	Plate Compactors	1	8.00	8	0.43
Control Structures	Welders	1	8.00	46	0.45

McAllister Ranch - Kern-San Joaquin County, Summer

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

Pipelines	Cranes	1	8.00	231	0.29
Pipelines	Forklifts	1	8.00	89	0.20
Pipelines	Graders	1	8.00	187	0.41
Pipelines	Rollers	1	8.00	80	0.38
Pipelines	Trenchers	1	8.00	78	0.50
Wells	Bore/Drill Rigs	1	8.00	221	0.50
Wells	Forklifts	1	8.00	89	0.20
Wells	Generator Sets	0	8.00	84	0.74
Wells	Off-Highway Trucks	0	8.00	402	0.38
Wells	Welders	0	8.00	46	0.45
Wells no other activity	Rubber Tired Dozers	1	8.00	247	0.40
Wells no other activity	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wells no other activity	Bore/Drill Rigs	1	8.00	221	0.50
Wells no other activity	Forklifts	1	8.00	89	0.20
Wells no other activity	Generator Sets	1	8.00	84	0.74
Wells no other activity	Off-Highway Trucks	1	8.00	402	0.38
Wells no other activity	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Control Structures	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Ponds	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Canal Improvements	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pumps	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipelines	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wells	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

McAllister Ranch - Kern-San Joaquin County, Summer

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

Wells no other activity	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3665	3.4458	5.4840	8.2600e-003		0.1757	0.1757		0.1616	0.1616		800.0330	800.0330	0.2588		806.5017
Total	0.3665	3.4458	5.4840	8.2600e-003		0.1757	0.1757		0.1616	0.1616		800.0330	800.0330	0.2588		806.5017

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.2 Demolition - 2022

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	0.1081	1.8197	0.4718	8.8000e-003	0.3515	0.0330	0.3845	0.1054	0.0316	0.1369		924.2941	924.2941	5.7100e-003	0.1250	961.6766
Worker	0.0733	0.0420	0.5959	1.5600e-003	0.1602	9.1000e-004	0.1611	0.0425	8.4000e-004	0.0433		157.7543	157.7543	4.5300e-003	4.1200e-003	159.0945
Total	0.1814	1.8617	1.0677	0.0104	0.5117	0.0339	0.5456	0.1479	0.0324	0.1803		1,082.0484	1,082.0484	0.0102	0.1291	1,120.7710

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1014	0.4392	6.2506	8.2600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	800.0330	800.0330	0.2588		806.5017
Total	0.1014	0.4392	6.2506	8.2600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	800.0330	800.0330	0.2588		806.5017

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.2 Demolition - 2022

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	0.1081	1.8197	0.4718	8.8000e-003	0.3515	0.0330	0.3845	0.1054	0.0316	0.1369		924.2941	924.2941	5.7100e-003	0.1250	961.6766
Worker	0.0733	0.0420	0.5959	1.5600e-003	0.1602	9.1000e-004	0.1611	0.0425	8.4000e-004	0.0433		157.7543	157.7543	4.5300e-003	4.1200e-003	159.0945
Total	0.1814	1.8617	1.0677	0.0104	0.5117	0.0339	0.5456	0.1479	0.0324	0.1803		1,082.0484	1,082.0484	0.0102	0.1291	1,120.7710

3.3 Control Structures - 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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.4478	11.0652	14.3681	0.0312		0.4748	0.4748		0.4523	0.4523		2,955.4623	2,955.4623	0.7297		2,973.7054
Total	1.4478	11.0652	14.3681	0.0312	1.5000e-004	0.4748	0.4750	2.0000e-005	0.4523	0.4523		2,955.4623	2,955.4623	0.7297		2,973.7054

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 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	0.0315	1.2843	0.2690	8.5100e-003	0.3515	6.4500e-003	0.3580	0.1054	6.1600e-003	0.1115		893.8455	893.8455	2.0200e-003	0.1202	929.7019
Worker	0.0672	0.0369	0.5445	1.5100e-003	0.1602	8.6000e-004	0.1610	0.0425	7.9000e-004	0.0433		152.6645	152.6645	4.0500e-003	3.7900e-003	153.8965
Total	0.0987	1.3212	0.8135	0.0100	0.5117	7.3100e-003	0.5190	0.1479	6.9500e-003	0.1548		1,046.5101	1,046.5101	6.0700e-003	0.1239	1,083.5983

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.4623	2,955.4623	0.7297		2,973.7054
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.4623	2,955.4623	0.7297		2,973.7054

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 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	0.0315	1.2843	0.2690	8.5100e-003	0.3515	6.4500e-003	0.3580	0.1054	6.1600e-003	0.1115		893.8455	893.8455	2.0200e-003	0.1202	929.7019
Worker	0.0672	0.0369	0.5445	1.5100e-003	0.1602	8.6000e-004	0.1610	0.0425	7.9000e-004	0.0433		152.6645	152.6645	4.0500e-003	3.7900e-003	153.8965
Total	0.0987	1.3212	0.8135	0.0100	0.5117	7.3100e-003	0.5190	0.1479	6.9500e-003	0.1548		1,046.5101	1,046.5101	6.0700e-003	0.1239	1,083.5983

3.3 Control Structures - 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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3856	10.3792	14.3215	0.0312		0.4243	0.4243		0.4038	0.4038		2,956.2773	2,956.2773	0.7263		2,974.4357
Total	1.3856	10.3792	14.3215	0.0312	1.5000e-004	0.4243	0.4244	2.0000e-005	0.4038	0.4038		2,956.2773	2,956.2773	0.7263		2,974.4357

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 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	0.0296	1.2963	0.2451	8.4000e-003	0.3515	6.5300e-003	0.3581	0.1054	6.2500e-003	0.1116		882.8687	882.8687	1.8200e-003	0.1186	918.2482
Worker	0.0620	0.0326	0.5030	1.4600e-003	0.1602	8.1000e-004	0.1610	0.0425	7.4000e-004	0.0432		147.6408	147.6408	3.6400e-003	3.5200e-003	148.7802
Total	0.0915	1.3289	0.7481	9.8600e-003	0.5117	7.3400e-003	0.5191	0.1479	6.9900e-003	0.1548		1,030.5095	1,030.5095	5.4600e-003	0.1221	1,067.0284

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,956.2773	2,956.2773	0.7263		2,974.4357
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,956.2773	2,956.2773	0.7263		2,974.4357

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 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	0.0296	1.2963	0.2451	8.4000e-003	0.3515	6.5300e-003	0.3581	0.1054	6.2500e-003	0.1116		882.8687	882.8687	1.8200e-003	0.1186	918.2482
Worker	0.0620	0.0326	0.5030	1.4600e-003	0.1602	8.1000e-004	0.1610	0.0425	7.4000e-004	0.0432		147.6408	147.6408	3.6400e-003	3.5200e-003	148.7802
Total	0.0915	1.3289	0.7481	9.8600e-003	0.5117	7.3400e-003	0.5191	0.1479	6.9900e-003	0.1548		1,030.5095	1,030.5095	5.4600e-003	0.1221	1,067.0284

3.3 Control Structures - 2025

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3063	9.4321	14.2283	0.0312		0.3633	0.3633		0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254
Total	1.3063	9.4321	14.2283	0.0312	1.5000e-004	0.3633	0.3634	2.0000e-005	0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 2025

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	0.0279	1.3030	0.2258	8.2900e-003	0.3515	6.5800e-003	0.3581	0.1054	6.2900e-003	0.1117		871.0734	871.0734	1.6600e-003	0.1168	905.9049
Worker	0.0574	0.0291	0.4667	1.4100e-003	0.1602	7.7000e-004	0.1610	0.0425	7.1000e-004	0.0432		142.6048	142.6048	3.2800e-003	3.2800e-003	143.6645
Total	0.0853	1.3321	0.6925	9.7000e-003	0.5117	7.3500e-003	0.5191	0.1479	7.0000e-003	0.1549		1,013.6782	1,013.6782	4.9400e-003	0.1200	1,049.5695

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 2025

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	0.0279	1.3030	0.2258	8.2900e-003	0.3515	6.5800e-003	0.3581	0.1054	6.2900e-003	0.1117		871.0734	871.0734	1.6600e-003	0.1168	905.9049
Worker	0.0574	0.0291	0.4667	1.4100e-003	0.1602	7.7000e-004	0.1610	0.0425	7.1000e-004	0.0432		142.6048	142.6048	3.2800e-003	3.2800e-003	143.6645
Total	0.0853	1.3321	0.6925	9.7000e-003	0.5117	7.3500e-003	0.5191	0.1479	7.0000e-003	0.1549		1,013.6782	1,013.6782	4.9400e-003	0.1200	1,049.5695

3.3 Control Structures - 2026

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3063	9.4321	14.2283	0.0312		0.3633	0.3633		0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254
Total	1.3063	9.4321	14.2283	0.0312	1.5000e-004	0.3633	0.3634	2.0000e-005	0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 2026

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	0.0265	1.3057	0.2103	8.1800e-003	0.3515	6.6000e-003	0.3581	0.1054	6.3100e-003	0.1117		859.4053	859.4053	1.5300e-003	0.1149	893.6880
Worker	0.0534	0.0262	0.4367	1.3600e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		137.8122	137.8122	2.9700e-003	3.0800e-003	138.8050
Total	0.0799	1.3319	0.6470	9.5400e-003	0.5117	7.3200e-003	0.5190	0.1479	6.9800e-003	0.1548		997.2175	997.2175	4.5000e-003	0.1180	1,032.4930

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.3 Control Structures - 2026

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	0.0265	1.3057	0.2103	8.1800e-003	0.3515	6.6000e-003	0.3581	0.1054	6.3100e-003	0.1117		859.4053	859.4053	1.5300e-003	0.1149	893.6880
Worker	0.0534	0.0262	0.4367	1.3600e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		137.8122	137.8122	2.9700e-003	3.0800e-003	138.8050
Total	0.0799	1.3319	0.6470	9.5400e-003	0.5117	7.3200e-003	0.5190	0.1479	6.9800e-003	0.1548		997.2175	997.2175	4.5000e-003	0.1180	1,032.4930

3.4 Ponds - 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.1702	12.9364	7.8296	0.0218		0.4755	0.4755		0.4375	0.4375		2,110.9840	2,110.9840	0.6827		2,128.0523
Total	1.1702	12.9364	7.8296	0.0218	1.5908	0.4755	2.0663	0.1718	0.4375	0.6093		2,110.9840	2,110.9840	0.6827		2,128.0523

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.2676	1.1594	9.8102	0.0218		0.0357	0.0357		0.0357	0.0357	0.0000	2,110.9840	2,110.9840	0.6827		2,128.0523
Total	0.2676	1.1594	9.8102	0.0218	1.5908	0.0357	1.6264	0.1718	0.0357	0.2074	0.0000	2,110.9840	2,110.9840	0.6827		2,128.0523

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.4 Ponds - 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.1147	11.8514	7.6234	0.0218		0.4389	0.4389		0.4038	0.4038		2,109.6055	2,109.6055	0.6823		2,126.6627
Total	1.1147	11.8514	7.6234	0.0218	1.5908	0.4389	2.0297	0.1718	0.4038	0.5756		2,109.6055	2,109.6055	0.6823		2,126.6627

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.2676	1.1594	9.8102	0.0218		0.0357	0.0357		0.0357	0.0357	0.0000	2,109.6055	2,109.6055	0.6823		2,126.6627
Total	0.2676	1.1594	9.8102	0.0218	1.5908	0.0357	1.6264	0.1718	0.0357	0.2074	0.0000	2,109.6055	2,109.6055	0.6823		2,126.6627

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.5 Canal Improvements - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.6847	7.1272	3.1064	8.5400e-003		0.3209	0.3209		0.2953	0.2953		827.0007	827.0007	0.2675		833.6874
Total	0.6847	7.1272	3.1064	8.5400e-003	6.5523	0.3209	6.8733	3.3675	0.2953	3.6627		827.0007	827.0007	0.2675		833.6874

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.5 Canal Improvements - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.1046	0.4531	3.8336	8.5400e-003		0.0139	0.0139		0.0139	0.0139	0.0000	827.0007	827.0007	0.2675		833.6874
Total	0.1046	0.4531	3.8336	8.5400e-003	6.5523	0.0139	6.5663	3.3675	0.0139	3.3814	0.0000	827.0007	827.0007	0.2675		833.6874

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.5 Canal Improvements - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.6 Pumps - 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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	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	8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003		0.0000	0.0000	0.0000		0.0000

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.6 Pumps - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	0.0000	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	8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000		0.0000

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.6 Pumps - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.7 Pipelines - 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					0.5313	0.0000	0.5313	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	1.4072	14.6403	11.2267	0.0230		0.6963	0.6963		0.6406	0.6406		2,223.8918	2,223.8918	0.7193		2,241.8731
Total	1.4072	14.6403	11.2267	0.0230	0.5313	0.6963	1.2276	0.0574	0.6406	0.6980		2,223.8918	2,223.8918	0.7193		2,241.8731

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.7 Pipelines - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					0.5313	0.0000	0.5313	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.2815	1.2196	13.5737	0.0230		0.0375	0.0375		0.0375	0.0375	0.0000	2,223.8918	2,223.8918	0.7193		2,241.8731
Total	0.2815	1.2196	13.5737	0.0230	0.5313	0.0375	0.5688	0.0574	0.0375	0.0949	0.0000	2,223.8918	2,223.8918	0.7193		2,241.8731

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.7 Pipelines - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.8 Wells - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	0.2962	2.6840	3.1700	0.0110		0.1051	0.1051		0.0967	0.0967		1,065.2810	1,065.2810	0.3445		1,073.8943
Total	0.2962	2.6840	3.1700	0.0110	3.1000e-004	0.1051	0.1054	5.0000e-005	0.0967	0.0967		1,065.2810	1,065.2810	0.3445		1,073.8943

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.8 Wells - 2026

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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	0.1358	0.5883	5.4491	0.0110		0.0181	0.0181		0.0181	0.0181	0.0000	1,065.2810	1,065.2810	0.3445		1,073.8943
Total	0.1358	0.5883	5.4491	0.0110	3.1000e-004	0.0181	0.0184	5.0000e-005	0.0181	0.0182	0.0000	1,065.2810	1,065.2810	0.3445		1,073.8943

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.8 Wells - 2026

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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.9 Wells no other activity - 2026

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9119	15.9465	14.6961	0.0420		0.6349	0.6349		0.5950	0.5950		4,014.1536	4,014.1536	1.0724		4,040.9634
Total	1.9119	15.9465	14.6961	0.0420	6.5523	0.6349	7.1873	3.3675	0.5950	3.9625		4,014.1536	4,014.1536	1.0724		4,040.9634

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.9 Wells no other activity - 2026

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	0.0265	1.3057	0.2103	8.1800e-003	0.3515	6.6000e-003	0.3581	0.1054	6.3100e-003	0.1117		859.4053	859.4053	1.5300e-003	0.1149	893.6880
Worker	0.0534	0.0262	0.4367	1.3600e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		137.8122	137.8122	2.9700e-003	3.0800e-003	138.8050
Total	0.0799	1.3319	0.6470	9.5400e-003	0.5117	7.3200e-003	0.5190	0.1479	6.9800e-003	0.1548		997.2175	997.2175	4.5000e-003	0.1180	1,032.4930

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.5131	3.0374	20.8201	0.0420		0.0655	0.0655		0.0655	0.0655	0.0000	4,014.1536	4,014.1536	1.0724		4,040.9634
Total	0.5131	3.0374	20.8201	0.0420	6.5523	0.0655	6.6178	3.3675	0.0655	3.4330	0.0000	4,014.1536	4,014.1536	1.0724		4,040.9634

McAllister Ranch - Kern-San Joaquin County, Summer

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

3.9 Wells no other activity - 2026

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	0.0265	1.3057	0.2103	8.1800e-003	0.3515	6.6000e-003	0.3581	0.1054	6.3100e-003	0.1117		859.4053	859.4053	1.5300e-003	0.1149	893.6880
Worker	0.0534	0.0262	0.4367	1.3600e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		137.8122	137.8122	2.9700e-003	3.0800e-003	138.8050
Total	0.0799	1.3319	0.6470	9.5400e-003	0.5117	7.3200e-003	0.5190	0.1479	6.9800e-003	0.1548		997.2175	997.2175	4.5000e-003	0.1180	1,032.4930

McAllister Ranch - Kern-San Joaquin County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0256	0.0419	0.2239	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6913	58.6913	2.5400e-003	3.2300e-003	59.7164
Unmitigated	0.0256	0.0419	0.2239	5.7000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		58.6913	58.6913	2.5400e-003	3.2300e-003	59.7164

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	8.00	8.00	8.00	26,062	26,062
Total	8.00	8.00	8.00	26,062	26,062

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
User Defined Industrial	9.50	7.30	7.30	75.00	0.00	25.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.491744	0.054986	0.180747	0.153452	0.027634	0.008574	0.014177	0.038442	0.000573	0.000231	0.024179	0.001379	0.003882

McAllister Ranch - Kern-San Joaquin County, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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

McAllister Ranch - Kern-San Joaquin County, Summer

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

McAllister Ranch - Kern-San Joaquin County, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

McAllister Ranch - Kern-San Joaquin County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

McAllister Ranch - Kern-San Joaquin County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

McAllister Ranch - Kern-San Joaquin County, Winter

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

**McAllister Ranch
Kern-San Joaquin County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	2,070.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	32
Climate Zone	3			Operational Year	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Entered lot acreage of 2070
- Construction Phase - Construction length in project description
- Off-road Equipment - Construction Equipment provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - no Equipment for pump phase
- Off-road Equipment - Construction List provided by Applicant
- Off-road Equipment - Construction List provided by Applicant
- Grading - Applicant provided material imported

McAllister Ranch - Kern-San Joaquin County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	6,000.00	140.00
tblConstructionPhase	NumDays	6,000.00	18.00
tblConstructionPhase	NumDays	10,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	338.00
tblConstructionPhase	NumDays	6,000.00	75.00
tblConstructionPhase	NumDays	6,000.00	925.00
tblConstructionPhase	NumDays	6,000.00	142.00
tblConstructionPhase	NumDays	6,000.00	98.00
tblConstructionPhase	PhaseEndDate	3/12/2821	7/12/2024
tblConstructionPhase	PhaseEndDate	11/13/2736	1/25/2023
tblConstructionPhase	PhaseEndDate	4/30/2060	6/17/2022
tblConstructionPhase	PhaseEndDate	9/28/2142	4/17/2024
tblConstructionPhase	PhaseEndDate	1/12/2779	4/12/2024
tblConstructionPhase	PhaseEndDate	4/30/2083	7/17/2026
tblConstructionPhase	PhaseStartDate	1/13/2779	1/1/2024
tblConstructionPhase	PhaseStartDate	9/29/2142	1/2/2023
tblConstructionPhase	PhaseStartDate	5/1/2083	1/2/2023
tblConstructionPhase	PhaseStartDate	11/14/2736	1/1/2024
tblConstructionPhase	PhaseStartDate	5/1/2060	1/2/2023
tblEnergyUse	NT24E	0.00	34,752,101.00
tblGrading	MaterialImported	0.00	925.00
tblGrading	MaterialImported	0.00	4,500.00
tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	300.00

McAllister Ranch - Kern-San Joaquin County, Winter

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

tblLandUse	LotAcreage	0.00	2,070.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

McAllister Ranch - Kern-San Joaquin County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblTripsAndVMT	HaulingTripNumber	116.00	0.00
tblTripsAndVMT	HaulingTripNumber	563.00	0.00
tblTripsAndVMT	HaulingTripNumber	125.00	0.00
tblTripsAndVMT	HaulingTripNumber	38.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	20.00

McAllister Ranch - Kern-San Joaquin County, Winter

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

tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorTripNumber	0.00	18.00
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tbITripsAndVMT	WorkerTripNumber	5.00	19.50
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	3.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	0.00
tbITripsAndVMT	WorkerTripNumber	5.00	0.00
tbITripsAndVMT	WorkerTripNumber	15.00	19.50
tblVehicleTrips	CNW_TTP	0.00	25.00
tblVehicleTrips	CW_TTP	0.00	75.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	8.00
tblVehicleTrips	SU_TR	0.00	8.00
tblVehicleTrips	WD_TR	0.00	8.00

2.0 Emissions Summary

McAllister Ranch - Kern-San Joaquin County, 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					
2022	0.5392	5.4420	6.4516	0.0184	0.5117	0.2096	0.7213	0.1479	0.1941	0.3419	0.0000	1,863.3278	1,863.3278	0.2693	0.1298	1,908.7279
2023	3.3938	32.5452	26.0295	0.0714	8.6550	1.2786	9.9335	3.6871	1.1920	4.8791	0.0000	6,921.9612	6,921.9612	1.6863	0.1246	7,001.2416
2024	3.9921	38.2945	33.8412	0.0857	2.6428	1.5668	4.2096	0.3784	1.4552	1.8335	0.0000	8,302.9350	8,302.9350	2.1337	0.1227	8,392.8283
2025	1.3855	10.8583	14.8503	0.0408	0.5119	0.3706	0.8825	0.1479	0.3529	0.5008	0.0000	3,952.9306	3,952.9306	0.7278	0.1206	4,007.0508
2026	1.9863	17.3718	17.9811	0.0516	7.0641	0.6423	7.7063	3.5153	0.6020	4.1174	0.0000	5,002.3514	5,002.3514	1.0772	0.1185	5,064.4584
Maximum	3.9921	38.2945	33.8412	0.0857	8.6550	1.5668	9.9335	3.6871	1.4552	4.8791	0.0000	8,302.9350	8,302.9350	2.1337	0.1298	8,392.8283

McAllister Ranch - Kern-San Joaquin County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	0.0203	0.0461	0.2107	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0748	54.0748	2.7400e-003	3.3600e-003	55.1446
Total	0.0203	0.0461	0.2108	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0751	54.0751	2.7400e-003	3.3600e-003	55.1449

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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	0.0203	0.0461	0.2107	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0748	54.0748	2.7400e-003	3.3600e-003	55.1446
Total	0.0203	0.0461	0.2108	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0751	54.0751	2.7400e-003	3.3600e-003	55.1449

McAllister Ranch - Kern-San Joaquin County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	6/17/2022	5	120	
2	Control Structures	Site Preparation	1/2/2023	7/17/2026	5	925	
3	Ponds	Site Preparation	1/2/2023	4/17/2024	5	338	
4	Canal Improvements	Site Preparation	1/2/2023	1/25/2023	5	18	
5	Pumps	Site Preparation	1/1/2024	4/12/2024	5	75	
6	Pipelines	Site Preparation	1/1/2024	7/12/2024	5	140	
7	Wells	Site Preparation	1/1/2026	7/17/2026	5	142	
8	Wells no other activity	Site Preparation	7/20/2026	12/2/2026	5	98	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipelines	Air Compressors	0	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Canal Improvements	Cranes	0	7.00	231	0.29

McAllister Ranch - Kern-San Joaquin County, Winter

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

Demolition	Excavators	1	8.00	158	0.38
Ponds	Excavators	0	8.00	158	0.38
Canal Improvements	Forklifts	0	8.00	89	0.20
Canal Improvements	Generator Sets	0	8.00	84	0.74
Ponds	Graders	1	8.00	187	0.41
Pumps	Pavers	0	8.00	130	0.42
Pumps	Paving Equipment	0	8.00	132	0.36
Pumps	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Rubber Tired Dozers	0	8.00	247	0.40
Control Structures	Rubber Tired Dozers	0	8.00	247	0.40
Ponds	Scrapers	1	8.00	367	0.48
Canal Improvements	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Ponds	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Control Structures	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Canal Improvements	Welders	0	8.00	46	0.45
Canal Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Pumps	Rubber Tired Dozers	0	8.00	247	0.40
Pipelines	Rubber Tired Dozers	0	8.00	247	0.40
Wells	Rubber Tired Dozers	0	8.00	247	0.40
Pumps	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipelines	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wells	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Control Structures	Excavators	1	8.00	158	0.38
Control Structures	Generator Sets	1	8.00	84	0.74
Control Structures	Off-Highway Trucks	1	8.00	402	0.38
Control Structures	Plate Compactors	1	8.00	8	0.43
Control Structures	Welders	1	8.00	46	0.45

McAllister Ranch - Kern-San Joaquin County, Winter

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

Pipelines	Cranes	1	8.00	231	0.29
Pipelines	Forklifts	1	8.00	89	0.20
Pipelines	Graders	1	8.00	187	0.41
Pipelines	Rollers	1	8.00	80	0.38
Pipelines	Trenchers	1	8.00	78	0.50
Wells	Bore/Drill Rigs	1	8.00	221	0.50
Wells	Forklifts	1	8.00	89	0.20
Wells	Generator Sets	0	8.00	84	0.74
Wells	Off-Highway Trucks	0	8.00	402	0.38
Wells	Welders	0	8.00	46	0.45
Wells no other activity	Rubber Tired Dozers	1	8.00	247	0.40
Wells no other activity	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wells no other activity	Bore/Drill Rigs	1	8.00	221	0.50
Wells no other activity	Forklifts	1	8.00	89	0.20
Wells no other activity	Generator Sets	1	8.00	84	0.74
Wells no other activity	Off-Highway Trucks	1	8.00	402	0.38
Wells no other activity	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Control Structures	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Ponds	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Canal Improvements	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pumps	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipelines	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wells	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

McAllister Ranch - Kern-San Joaquin County, Winter

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

Wells no other activity	6	19.50	18.00	0.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3665	3.4458	5.4840	8.2600e-003		0.1757	0.1757		0.1616	0.1616		800.0330	800.0330	0.2588		806.5017
Total	0.3665	3.4458	5.4840	8.2600e-003		0.1757	0.1757		0.1616	0.1616		800.0330	800.0330	0.2588		806.5017

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.2 Demolition - 2022

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	0.1090	1.9480	0.4732	8.8000e-003	0.3515	0.0330	0.3846	0.1054	0.0316	0.1370		924.2010	924.2010	5.6800e-003	0.1253	961.6681
Worker	0.0638	0.0482	0.4944	1.3800e-003	0.1602	9.1000e-004	0.1611	0.0425	8.4000e-004	0.0433		139.0937	139.0937	4.9000e-003	4.5000e-003	140.5581
Total	0.1728	1.9962	0.9676	0.0102	0.5117	0.0340	0.5457	0.1479	0.0324	0.1803		1,063.2948	1,063.2948	0.0106	0.1298	1,102.2262

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1014	0.4392	6.2506	8.2600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	800.0330	800.0330	0.2588		806.5017
Total	0.1014	0.4392	6.2506	8.2600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	800.0330	800.0330	0.2588		806.5017

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.2 Demolition - 2022

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	0.1090	1.9480	0.4732	8.8000e-003	0.3515	0.0330	0.3846	0.1054	0.0316	0.1370		924.2010	924.2010	5.6800e-003	0.1253	961.6681
Worker	0.0638	0.0482	0.4944	1.3800e-003	0.1602	9.1000e-004	0.1611	0.0425	8.4000e-004	0.0433		139.0937	139.0937	4.9000e-003	4.5000e-003	140.5581
Total	0.1728	1.9962	0.9676	0.0102	0.5117	0.0340	0.5457	0.1479	0.0324	0.1803		1,063.2948	1,063.2948	0.0106	0.1298	1,102.2262

3.3 Control Structures - 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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.4478	11.0652	14.3681	0.0312		0.4748	0.4748		0.4523	0.4523		2,955.4623	2,955.4623	0.7297		2,973.7054
Total	1.4478	11.0652	14.3681	0.0312	1.5000e-004	0.4748	0.4750	2.0000e-005	0.4523	0.4523		2,955.4623	2,955.4623	0.7297		2,973.7054

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 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	0.0324	1.3742	0.2714	8.5100e-003	0.3515	6.4500e-003	0.3580	0.1054	6.1700e-003	0.1115		893.8553	893.8553	2.0000e-003	0.1204	929.7913
Worker	0.0586	0.0423	0.4540	1.3300e-003	0.1602	8.6000e-004	0.1610	0.0425	7.9000e-004	0.0433		134.6589	134.6589	4.4100e-003	4.1500e-003	136.0052
Total	0.0911	1.4165	0.7254	9.8400e-003	0.5117	7.3100e-003	0.5190	0.1479	6.9600e-003	0.1548		1,028.5142	1,028.5142	6.4100e-003	0.1246	1,065.7965

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.4623	2,955.4623	0.7297		2,973.7054
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.4623	2,955.4623	0.7297		2,973.7054

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 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	0.0324	1.3742	0.2714	8.5100e-003	0.3515	6.4500e-003	0.3580	0.1054	6.1700e-003	0.1115		893.8553	893.8553	2.0000e-003	0.1204	929.7913
Worker	0.0586	0.0423	0.4540	1.3300e-003	0.1602	8.6000e-004	0.1610	0.0425	7.9000e-004	0.0433		134.6589	134.6589	4.4100e-003	4.1500e-003	136.0052
Total	0.0911	1.4165	0.7254	9.8400e-003	0.5117	7.3100e-003	0.5190	0.1479	6.9600e-003	0.1548		1,028.5142	1,028.5142	6.4100e-003	0.1246	1,065.7965

3.3 Control Structures - 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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3856	10.3792	14.3215	0.0312		0.4243	0.4243		0.4038	0.4038		2,956.2773	2,956.2773	0.7263		2,974.4357
Total	1.3856	10.3792	14.3215	0.0312	1.5000e-004	0.4243	0.4244	2.0000e-005	0.4038	0.4038		2,956.2773	2,956.2773	0.7263		2,974.4357

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 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	0.0305	1.3863	0.2484	8.4000e-003	0.3515	6.5400e-003	0.3581	0.1054	6.2500e-003	0.1116		882.8883	882.8883	1.8100e-003	0.1188	918.3397
Worker	0.0542	0.0374	0.4211	1.2900e-003	0.1602	8.1000e-004	0.1610	0.0425	7.4000e-004	0.0432		130.2721	130.2721	3.9800e-003	3.8400e-003	131.5172
Total	0.0847	1.4236	0.6695	9.6900e-003	0.5117	7.3500e-003	0.5191	0.1479	6.9900e-003	0.1548		1,013.1604	1,013.1604	5.7900e-003	0.1227	1,049.8569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,956.2773	2,956.2773	0.7263		2,974.4357
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,956.2773	2,956.2773	0.7263		2,974.4357

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 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	0.0305	1.3863	0.2484	8.4000e-003	0.3515	6.5400e-003	0.3581	0.1054	6.2500e-003	0.1116		882.8883	882.8883	1.8100e-003	0.1188	918.3397
Worker	0.0542	0.0374	0.4211	1.2900e-003	0.1602	8.1000e-004	0.1610	0.0425	7.4000e-004	0.0432		130.2721	130.2721	3.9800e-003	3.8400e-003	131.5172
Total	0.0847	1.4236	0.6695	9.6900e-003	0.5117	7.3500e-003	0.5191	0.1479	6.9900e-003	0.1548		1,013.1604	1,013.1604	5.7900e-003	0.1227	1,049.8569

3.3 Control Structures - 2025

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3063	9.4321	14.2283	0.0312		0.3633	0.3633		0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254
Total	1.3063	9.4321	14.2283	0.0312	1.5000e-004	0.3633	0.3634	2.0000e-005	0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 2025

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	0.0289	1.3929	0.2298	8.2900e-003	0.3515	6.5900e-003	0.3581	0.1054	6.3000e-003	0.1117		871.1016	871.1016	1.6500e-003	0.1170	905.9991
Worker	0.0503	0.0333	0.3921	1.2500e-003	0.1602	7.7000e-004	0.1610	0.0425	7.1000e-004	0.0432		125.8682	125.8682	3.6000e-003	3.5800e-003	127.0263
Total	0.0792	1.4262	0.6220	9.5400e-003	0.5117	7.3600e-003	0.5191	0.1479	7.0100e-003	0.1549		996.9697	996.9697	5.2500e-003	0.1206	1,033.0254

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 2025

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	0.0289	1.3929	0.2298	8.2900e-003	0.3515	6.5900e-003	0.3581	0.1054	6.3000e-003	0.1117		871.1016	871.1016	1.6500e-003	0.1170	905.9991
Worker	0.0503	0.0333	0.3921	1.2500e-003	0.1602	7.7000e-004	0.1610	0.0425	7.1000e-004	0.0432		125.8682	125.8682	3.6000e-003	3.5800e-003	127.0263
Total	0.0792	1.4262	0.6220	9.5400e-003	0.5117	7.3600e-003	0.5191	0.1479	7.0100e-003	0.1549		996.9697	996.9697	5.2500e-003	0.1206	1,033.0254

3.3 Control Structures - 2026

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					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	1.3063	9.4321	14.2283	0.0312		0.3633	0.3633		0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254
Total	1.3063	9.4321	14.2283	0.0312	1.5000e-004	0.3633	0.3634	2.0000e-005	0.3459	0.3459		2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 2026

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	0.0274	1.3954	0.2149	8.1800e-003	0.3515	6.6100e-003	0.3581	0.1054	6.3200e-003	0.1117		859.4408	859.4408	1.5200e-003	0.1151	893.7849
Worker	0.0470	0.0300	0.3678	1.2000e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		121.6687	121.6687	3.2700e-003	3.3700e-003	122.7538
Total	0.0744	1.4253	0.5827	9.3800e-003	0.5117	7.3300e-003	0.5190	0.1479	6.9900e-003	0.1548		981.1095	981.1095	4.7900e-003	0.1185	1,016.5387

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.4140	2.6856	18.0003	0.0312		0.0567	0.0567		0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254
Total	0.4140	2.6856	18.0003	0.0312	1.5000e-004	0.0567	0.0569	2.0000e-005	0.0567	0.0567	0.0000	2,955.9609	2,955.9609	0.7226		2,974.0254

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.3 Control Structures - 2026

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	0.0274	1.3954	0.2149	8.1800e-003	0.3515	6.6100e-003	0.3581	0.1054	6.3200e-003	0.1117		859.4408	859.4408	1.5200e-003	0.1151	893.7849
Worker	0.0470	0.0300	0.3678	1.2000e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		121.6687	121.6687	3.2700e-003	3.3700e-003	122.7538
Total	0.0744	1.4253	0.5827	9.3800e-003	0.5117	7.3300e-003	0.5190	0.1479	6.9900e-003	0.1548		981.1095	981.1095	4.7900e-003	0.1185	1,016.5387

3.4 Ponds - 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.1702	12.9364	7.8296	0.0218		0.4755	0.4755		0.4375	0.4375		2,110.9840	2,110.9840	0.6827		2,128.0523
Total	1.1702	12.9364	7.8296	0.0218	1.5908	0.4755	2.0663	0.1718	0.4375	0.6093		2,110.9840	2,110.9840	0.6827		2,128.0523

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.2676	1.1594	9.8102	0.0218		0.0357	0.0357		0.0357	0.0357	0.0000	2,110.9840	2,110.9840	0.6827		2,128.0523
Total	0.2676	1.1594	9.8102	0.0218	1.5908	0.0357	1.6264	0.1718	0.0357	0.2074	0.0000	2,110.9840	2,110.9840	0.6827		2,128.0523

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.4 Ponds - 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.1147	11.8514	7.6234	0.0218		0.4389	0.4389		0.4038	0.4038		2,109.6055	2,109.6055	0.6823		2,126.6627
Total	1.1147	11.8514	7.6234	0.0218	1.5908	0.4389	2.0297	0.1718	0.4038	0.5756		2,109.6055	2,109.6055	0.6823		2,126.6627

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.2676	1.1594	9.8102	0.0218		0.0357	0.0357		0.0357	0.0357	0.0000	2,109.6055	2,109.6055	0.6823		2,126.6627
Total	0.2676	1.1594	9.8102	0.0218	1.5908	0.0357	1.6264	0.1718	0.0357	0.2074	0.0000	2,109.6055	2,109.6055	0.6823		2,126.6627

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.4 Ponds - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.5 Canal Improvements - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.6847	7.1272	3.1064	8.5400e-003		0.3209	0.3209		0.2953	0.2953		827.0007	827.0007	0.2675		833.6874
Total	0.6847	7.1272	3.1064	8.5400e-003	6.5523	0.3209	6.8733	3.3675	0.2953	3.6627		827.0007	827.0007	0.2675		833.6874

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.5 Canal Improvements - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.1046	0.4531	3.8336	8.5400e-003		0.0139	0.0139		0.0139	0.0139	0.0000	827.0007	827.0007	0.2675		833.6874
Total	0.1046	0.4531	3.8336	8.5400e-003	6.5523	0.0139	6.5663	3.3675	0.0139	3.3814	0.0000	827.0007	827.0007	0.2675		833.6874

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.5 Canal Improvements - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.6 Pumps - 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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	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	8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003		0.0000	0.0000	0.0000		0.0000

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.6 Pumps - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	0.0000	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	8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000		0.0000

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.6 Pumps - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.7 Pipelines - 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					0.5313	0.0000	0.5313	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	1.4072	14.6403	11.2267	0.0230		0.6963	0.6963		0.6406	0.6406		2,223.8918	2,223.8918	0.7193		2,241.8731
Total	1.4072	14.6403	11.2267	0.0230	0.5313	0.6963	1.2276	0.0574	0.6406	0.6980		2,223.8918	2,223.8918	0.7193		2,241.8731

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.7 Pipelines - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					0.5313	0.0000	0.5313	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.2815	1.2196	13.5737	0.0230		0.0375	0.0375		0.0375	0.0375	0.0000	2,223.8918	2,223.8918	0.7193		2,241.8731
Total	0.2815	1.2196	13.5737	0.0230	0.5313	0.0375	0.5688	0.0574	0.0375	0.0949	0.0000	2,223.8918	2,223.8918	0.7193		2,241.8731

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.7 Pipelines - 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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.8 Wells - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	0.2962	2.6840	3.1700	0.0110		0.1051	0.1051		0.0967	0.0967		1,065.2810	1,065.2810	0.3445		1,073.8943
Total	0.2962	2.6840	3.1700	0.0110	3.1000e-004	0.1051	0.1054	5.0000e-005	0.0967	0.0967		1,065.2810	1,065.2810	0.3445		1,073.8943

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.8 Wells - 2026

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	0.0000	0.0000	0.0000	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	0.0000	0.0000

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					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	0.1358	0.5883	5.4491	0.0110		0.0181	0.0181		0.0181	0.0181	0.0000	1,065.2810	1,065.2810	0.3445		1,073.8943
Total	0.1358	0.5883	5.4491	0.0110	3.1000e-004	0.0181	0.0184	5.0000e-005	0.0181	0.0182	0.0000	1,065.2810	1,065.2810	0.3445		1,073.8943

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.8 Wells - 2026

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	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.9 Wells no other activity - 2026

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9119	15.9465	14.6961	0.0420		0.6349	0.6349		0.5950	0.5950		4,014.1536	4,014.1536	1.0724		4,040.9634
Total	1.9119	15.9465	14.6961	0.0420	6.5523	0.6349	7.1873	3.3675	0.5950	3.9625		4,014.1536	4,014.1536	1.0724		4,040.9634

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.9 Wells no other activity - 2026

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	0.0274	1.3954	0.2149	8.1800e-003	0.3515	6.6100e-003	0.3581	0.1054	6.3200e-003	0.1117		859.4408	859.4408	1.5200e-003	0.1151	893.7849
Worker	0.0470	0.0300	0.3678	1.2000e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		121.6687	121.6687	3.2700e-003	3.3700e-003	122.7538
Total	0.0744	1.4253	0.5827	9.3800e-003	0.5117	7.3300e-003	0.5190	0.1479	6.9900e-003	0.1548		981.1095	981.1095	4.7900e-003	0.1185	1,016.5387

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.5131	3.0374	20.8201	0.0420		0.0655	0.0655		0.0655	0.0655	0.0000	4,014.1536	4,014.1536	1.0724		4,040.9634
Total	0.5131	3.0374	20.8201	0.0420	6.5523	0.0655	6.6178	3.3675	0.0655	3.4330	0.0000	4,014.1536	4,014.1536	1.0724		4,040.9634

McAllister Ranch - Kern-San Joaquin County, Winter

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

3.9 Wells no other activity - 2026

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	0.0274	1.3954	0.2149	8.1800e-003	0.3515	6.6100e-003	0.3581	0.1054	6.3200e-003	0.1117		859.4408	859.4408	1.5200e-003	0.1151	893.7849
Worker	0.0470	0.0300	0.3678	1.2000e-003	0.1602	7.2000e-004	0.1609	0.0425	6.7000e-004	0.0432		121.6687	121.6687	3.2700e-003	3.3700e-003	122.7538
Total	0.0744	1.4253	0.5827	9.3800e-003	0.5117	7.3300e-003	0.5190	0.1479	6.9900e-003	0.1548		981.1095	981.1095	4.7900e-003	0.1185	1,016.5387

McAllister Ranch - Kern-San Joaquin County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0203	0.0461	0.2107	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0748	54.0748	2.7400e-003	3.3600e-003	55.1446
Unmitigated	0.0203	0.0461	0.2107	5.3000e-004	0.0553	5.1000e-004	0.0558	0.0148	4.8000e-004	0.0153		54.0748	54.0748	2.7400e-003	3.3600e-003	55.1446

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	8.00	8.00	8.00	26,062	26,062
Total	8.00	8.00	8.00	26,062	26,062

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
User Defined Industrial	9.50	7.30	7.30	75.00	0.00	25.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.491744	0.054986	0.180747	0.153452	0.027634	0.008574	0.014177	0.038442	0.000573	0.000231	0.024179	0.001379	0.003882

McAllister Ranch - Kern-San Joaquin County, Winter

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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

McAllister Ranch - Kern-San Joaquin County, Winter

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

McAllister Ranch - Kern-San Joaquin County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

McAllister Ranch - Kern-San Joaquin County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

McAllister Ranch - Kern-San Joaquin County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Power Calculations

Pumping Plant Power for Recharge

200,000 AF/year

276 cfs

10 ft - TDH

313.4 WHP

417.9 BHP

311.7 KW

2,730,797 KWh

**Target recovery number

all pumps

Given

Water HP Equation

Brake HP *assume 75% effic.

Head (ft) * flowrate (gpm) * SG / 3956

WHP/eff%

Recovery Wells

56000 AF/year

5.5 cfs

350 BHP

4900 BHP

3655 KW

32,021,304 KWh

**Target recovery number

for each well

at each well

for 14 wells

Energy Calculations

Construction Fuel Consumption	Gasoline	Diesel
Construction On-Road Vehicles	7,900	44,905
Construction Off-Road Equipment		217,215
Total For Construction	7,900	262,120

	Phase	Vehicle Type	Construction Phase Days	Trips Per Day	Total Trips	Miles Per Trip	Total Miles	Fuel Type	Gasoline		Diesel	
									Weighted Fuel Economy (miles/gallon)	Fuel Consumption (gallons)	Weighted Fuel Economy (miles/gallon)	Fuel Consumption (gallons)
Construction On-Road Vehicles	Demolition	Worker	120	20	2400	10.8	25,920	LDA,LDT1, LDT2	28.37294101	907.15	39.02047444	4.65
		Vendor	120	18	2160	20	43,200	HHDT, MHDT			8.385325076	5,152
		Hauling			0	20	-	HHDT			6.717234637	-
	Control Structures	Worker	925	20	18500	10.8	199,800	LDA,LDT1, LDT2	28.37294101	6,992.63	39.02047444	35.84
		Vendor	925	18	16650	20	333,000	HHDT, MHDT			8.385325076	39,712
		Hauling			0	20	-	HHDT			6.717234637	-
	Ponds	Worker	338	0	0	10.8	-	LDA,LDT1, LDT2	28.37294101	-	39.02047444	-
		Vendor	338	0	0	20	-	HHDT, MHDT			8.385325076	-
		Hauling			0	20	-	HHDT			6.717234637	-
	Canal Improvement	Worker	18	0	0	10.8	-	LDA,LDT1, LDT2	28.37294101	-	39.02047444	-
		Vendor	18	0	0	20	-	HHDT, MHDT			8.385325076	-
		Hauling			0	20	-	HHDT			6.717234637	-
	Pumps	Worker	75	0	0	10.8	-	LDA,LDT1, LDT2	28.37294101	-	39.02047444	-
		Vendor	75	0	0	20	-	HHDT, MHDT			8.385325076	-
		Hauling			0	20	-	HHDT			6.717234637	-
	Pipelines	Worker	140	0	0	10.8	-	LDA,LDT1, LDT2	28.37294101	-	39.02047444	-
		Vendor	140	0	0	20	-	HHDT, MHDT			8.385325076	-
		Hauling			0	20	-	HHDT			6.717234637	-
	Wells	Worker	142	0	0	10.8	-	LDA,LDT1, LDT2	28.37294101	-	39.02047444	-
		Vendor	142	0	0	20	-	HHDT, MHDT			8.385325076	-
		Hauling			0	20	-	HHDT			6.717234637	-
Wells no other activity	Worker	98	20	1960	10.8	21,168	LDA,LDT1, LDT2	28.37294101	740.84	39.02047444	3.80	
	Vendor	98	18	1764	20	35,280	HHDT, MHDT			8.385325076	4,207	
	Hauling			0	20	-	HHDT			6.717234637	-	
Total Fuel Consumption (Gallons)									7,899.78		44,904.59	

Notes:

1. Fuel Consumption is total miles multiplied by the percent gasoline or diesel respectively and then divided by fuel economy. It was assumed all MHDT and HHDT are diesel. LDA, LDT1, and LDT2 were assumed to be a mix of gasoline and diesel as ratioed by their VMT.

	LDA,LDT1,LDT2	MHDT	HHDT
Gasoline %	99.30%	0	0
Diesel %	0.70%	1	1

Phase name	Offroad Equipment Type	Amount	Days in Phase	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate lb/hp-hr	Diesel Fuel Consumption (gallons)
Demolition	Excavators	1	120	8	158	0.38	0.367	2,976
Demolition	Tractors/Loaders/Backhoes	1	120	8	97	0.37	0.408	1,977
Control Structures	Excavators	1	925	8	158	0.38	0.367	22,937
Control Structures	Generator Sets	1	925	8	84	0.74	0.408	26,400
Control Structures	Off-Highway Trucks	1	925	8	402	0.38	0.367	58,359
Control Structures	Plate Compactors	1	925	8	8	0.43	0.408	1,461
Control Structures	Tractors/Loaders/Backhoes	1	925	8	97	0.37	0.408	15,243
Control Structures	Welders	1	925	8	46	0.45	0.408	8,791
Ponds	Graders	1	338	8	187	0.41	0.367	10,703
Ponds	Scrapers	1	338	8	367	0.48	0.367	24,591
Canal Improvements	Rubber Tired Dozers	1	18	8	247	0.4	0.367	734
Pipelines	Cranes	1	140	8	231	0.29	0.367	3,873
Pipelines	Forklifts	1	140	8	89	0.2	0.408	1,144
Pipelines	Graders	1	140	8	187	0.41	0.367	4,433
Pipelines	Rollers	1	140	8	80	0.38	0.408	1,954
Pipelines	Tractors/Loaders/Backhoes	1	140	8	97	0.37	0.408	2,307
Pipelines	Trenchers	1	140	8	78	0.5	0.408	2,507
Wells	Bore/Drill Rigs	1	142	8	221	0.5	0.367	6,480
Wells	Forklifts	1	142	8	89	0.2	0.408	1,161
Wells no other activity	Bore/Drill Rigs	1	98	8	221	0.5	0.367	4,472
Wells no other activity	Forklifts	1	98	8	89	0.2	0.408	801
Wells no other activity	Generator Sets	1	98	8	84	0.74	0.408	2,797
Wells no other activity	Off-Highway Trucks	1	98	8	402	0.38	0.367	6,183
Wells no other activity	Rubber Tired Dozers	1	98	8	247	0.4	0.367	3,999
Wells no other activity	Welders	1	98	8	46	0.45	0.408	931
Total Diesel Fuel Use from Construction Off-Road								217,215

1. Equipment list is from CalEEMod.

2. Fuel Consumption is 0.408 for less than 100 hp and .367 if greater than or equal to 100 hp based on CARB Off-Road Diesel Engine Emission Factors

3. To convert to gallons the conversion factor of 7.1089 lb/gallon is used

4. Fuel consumption is amount multiplied by usage hours, days in phase, horsepower, loadfactor, and fuel consumption rate divided by conversion factor.

		Weighting					Fuel Economy					Weighted Fuel Economy
		LDA	LDT1	LDT2	MHDT	HHDT	LDA	LDT1	LDT2	MHDT	HHDT	Miles per Gallon
Worker	LDA, LDT1,LDT2	0.5	0.25	0.25	0	0	31.15621	26.56284	24.61651			28.37294101
Vendor	HHDT,MHDT	0	0	0	0.5	0.5						0
Gasoline	Hauling	0	0	0	0	1						0
Worker	LDA, LDT1,LDT2	0.5	0.25	0.25	0	0	48.59176	23.04888	35.8495	10.05342	6.717235	39.02047444
Vendor	HHDT,MHDT	0	0	0	0.5	0.5				10.05342	6.717235	8.385325076
Diesel	Hauling	0	0	0	0	1				10.05342	6.717235	6.717234637

Notes:

1. It was assumed all MHDT and HHDT are diesel. LDA, LDT1, and LDT2 were assumed to be a mix of gasoline and diesel as ratioed by their VMT.
2. EMFAC 2014 was used to estimate fuel economy based on VMT and fuel consumption.

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Statewide

Region: California

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar	Vehicle Ca	Model Yea	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
Statewide	2022	HHDT	Aggregate	Aggregate	Gasoline	170.0477	5832701	1112557	1400.088681
Statewide	2022	HHDT	Aggregate	Aggregate	Diesel	330970.2	1.35E+10	1.13E+09	2003416.716
Statewide	2022	LDA	Aggregate	Aggregate	Gasoline	15554986	2.06E+11	2.54E+10	6601949.299
Statewide	2022	LDA	Aggregate	Aggregate	Diesel	158682.5	2.14E+09	2.59E+08	43977.80948
Statewide	2022	LDT1	Aggregate	Aggregate	Gasoline	1757487	2.17E+10	2.79E+09	816920.6555
Statewide	2022	LDT1	Aggregate	Aggregate	Diesel	1335.669	8608982	1567902	373.5097782
Statewide	2022	LDT2	Aggregate	Aggregate	Gasoline	5500363	6.95E+10	8.87E+09	2822006.847
Statewide	2022	LDT2	Aggregate	Aggregate	Diesel	34015.97	4.93E+08	57832993	13738.40738
Statewide	2022	MHDT	Aggregate	Aggregate	Gasoline	48953.17	8.74E+08	3.2E+08	175709.2215
Statewide	2022	MHDT	Aggregate	Aggregate	Diesel	292165.6	5.71E+09	8.75E+08	567756.6205

