

Appendix B. Air Quality Appendix

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

**San Jose Family Camp Storm Damage Repair Project
Tuolumne County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	1.00	User Defined Unit	46.57	0.00	0
Other Asphalt Surfaces	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	66
Climate Zone	1			Operational Year	2023
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 - Based on Project Description
- Construction Phase - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Grading - Based on Project Description and Data Request
- Demolition -
- Trips and VMT -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	43.00
tblConstructionPhase	NumDays	50.00	5.00
tblConstructionPhase	NumDays	55.00	2.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	PhaseEndDate	10/3/2025	7/20/2022
tblConstructionPhase	PhaseEndDate	7/8/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	12/19/2025	7/22/2022
tblConstructionPhase	PhaseEndDate	8/19/2022	5/20/2022
tblConstructionPhase	PhaseStartDate	12/3/2022	5/23/2022
tblConstructionPhase	PhaseStartDate	10/4/2025	7/21/2022
tblConstructionPhase	PhaseStartDate	7/9/2022	5/9/2022
tblGrading	AcresOfGrading	5.00	1.83
tblGrading	AcresOfGrading	21.50	0.00
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialImported	0.00	387.00
tblLandUse	LotAcreage	0.00	46.57
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-2-2022	8-1-2022	0.7542	0.7542
		Highest	0.7542	0.7542

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	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0200e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0200e-003	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004

	ROG	NOx	CO	SO2	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	5/2/2022	5/6/2022	5	5	
2	Site Preparation and Grading	Grading	5/9/2022	5/20/2022	5	10	
3	Construction	Grading	5/23/2022	7/20/2022	5	43	

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4	Paving	Paving	7/21/2022	7/22/2022	5	2
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0.23

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Construction	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	0	8.00	187	0.41
Construction	Forklifts	1	8.00	89	0.20
Construction	Generator Sets	0	8.00	84	0.74
Site Preparation and Grading	Scrapers	0	8.00	367	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Construction	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
Construction	Graders	0	8.00	187	0.41
Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction	Welders	0	8.00	46	0.45

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Construction	Scrapers	0	8.00	367	0.48
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation and Grading	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation and Grading	Rollers	1	8.00	80	0.38
Construction	Off-Highway Trucks	2	8.00	402	0.38
Construction	Rollers	1	8.00	80	0.38

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	5	13.00	0.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	6	15.00	0.00	19.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Construction	8	20.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 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					
Fugitive Dust					2.6400e-003	0.0000	2.6400e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0222	0.0314	5.0000e-005		1.2100e-003	1.2100e-003		1.1600e-003	1.1600e-003	0.0000	4.2026	4.2026	9.2000e-004	0.0000	4.2256
Total	2.6900e-003	0.0222	0.0314	5.0000e-005	2.6400e-003	1.2100e-003	3.8500e-003	4.0000e-004	1.1600e-003	1.5600e-003	0.0000	4.2026	4.2026	9.2000e-004	0.0000	4.2256

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	8.0000e-005	3.8200e-003	4.4000e-004	1.0000e-005	2.0000e-004	3.0000e-005	2.3000e-004	5.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.8751	0.8751	0.0000	1.4000e-004	0.9162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.0600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3498	0.3498	2.0000e-005	1.0000e-005	0.3544
Total	3.7000e-004	4.0300e-003	2.5000e-003	1.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	1.2250	1.2250	2.0000e-005	1.5000e-004	1.2706

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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					
Fugitive Dust					2.6400e-003	0.0000	2.6400e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0222	0.0314	5.0000e-005		1.2100e-003	1.2100e-003		1.1600e-003	1.1600e-003	0.0000	4.2026	4.2026	9.2000e-004	0.0000	4.2256
Total	2.6900e-003	0.0222	0.0314	5.0000e-005	2.6400e-003	1.2100e-003	3.8500e-003	4.0000e-004	1.1600e-003	1.5600e-003	0.0000	4.2026	4.2026	9.2000e-004	0.0000	4.2256

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	8.0000e-005	3.8200e-003	4.4000e-004	1.0000e-005	2.0000e-004	3.0000e-005	2.3000e-004	5.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.8751	0.8751	0.0000	1.4000e-004	0.9162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.0600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3498	0.3498	2.0000e-005	1.0000e-005	0.3544
Total	3.7000e-004	4.0300e-003	2.5000e-003	1.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	1.2250	1.2250	2.0000e-005	1.5000e-004	1.2706

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3.3 Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0311	0.0000	0.0311	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0300e-003	0.0805	0.0670	1.2000e-004		4.0000e-003	4.0000e-003		3.6800e-003	3.6800e-003	0.0000	10.1667	10.1667	3.2300e-003	0.0000	10.2474
Total	8.0300e-003	0.0805	0.0670	1.2000e-004	0.0311	4.0000e-003	0.0351	0.0167	3.6800e-003	0.0203	0.0000	10.1667	10.1667	3.2300e-003	0.0000	10.2474

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.0200e-003	3.5000e-004	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6928	0.6928	0.0000	1.1000e-004	0.7253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	4.7500e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8073	0.8073	4.0000e-005	3.0000e-005	0.8179
Total	7.4000e-004	3.5000e-003	5.1000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	1.5001	1.5001	4.0000e-005	1.4000e-004	1.5432

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3.3 Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0311	0.0000	0.0311	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0300e-003	0.0805	0.0670	1.2000e-004		4.0000e-003	4.0000e-003		3.6800e-003	3.6800e-003	0.0000	10.1666	10.1666	3.2300e-003	0.0000	10.2474
Total	8.0300e-003	0.0805	0.0670	1.2000e-004	0.0311	4.0000e-003	0.0351	0.0167	3.6800e-003	0.0203	0.0000	10.1666	10.1666	3.2300e-003	0.0000	10.2474

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.0200e-003	3.5000e-004	1.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6928	0.6928	0.0000	1.1000e-004	0.7253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	4.7500e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8073	0.8073	4.0000e-005	3.0000e-005	0.8179
Total	7.4000e-004	3.5000e-003	5.1000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	1.5001	1.5001	4.0000e-005	1.4000e-004	1.5432

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3.4 Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1295	0.0000	0.1295	0.0712	0.0000	0.0712	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0627	0.5860	0.4452	1.1500e-003		0.0264	0.0264		0.0243	0.0243	0.0000	100.5808	100.5808	0.0325	0.0000	101.3940
Total	0.0627	0.5860	0.4452	1.1500e-003	0.1295	0.0264	0.1559	0.0712	0.0243	0.0955	0.0000	100.5808	100.5808	0.0325	0.0000	101.3940

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-004	7.6400e-003	8.8000e-004	2.0000e-005	4.0000e-004	6.0000e-005	4.6000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.7503	1.7503	1.0000e-005	2.8000e-004	1.8324
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8800e-003	2.7500e-003	0.0273	5.0000e-005	5.2800e-003	4.0000e-005	5.3200e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.6286	4.6286	2.1000e-004	1.9000e-004	4.6890
Total	4.0300e-003	0.0104	0.0281	7.0000e-005	5.6800e-003	1.0000e-004	5.7800e-003	1.5100e-003	1.0000e-004	1.6100e-003	0.0000	6.3789	6.3789	2.2000e-004	4.7000e-004	6.5214

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

3.4 Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1295	0.0000	0.1295	0.0712	0.0000	0.0712	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0627	0.5860	0.4452	1.1500e-003		0.0264	0.0264		0.0243	0.0243	0.0000	100.5806	100.5806	0.0325	0.0000	101.3939
Total	0.0627	0.5860	0.4452	1.1500e-003	0.1295	0.0264	0.1559	0.0712	0.0243	0.0955	0.0000	100.5806	100.5806	0.0325	0.0000	101.3939

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-004	7.6400e-003	8.8000e-004	2.0000e-005	4.0000e-004	6.0000e-005	4.6000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.7503	1.7503	1.0000e-005	2.8000e-004	1.8324
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8800e-003	2.7500e-003	0.0273	5.0000e-005	5.2800e-003	4.0000e-005	5.3200e-003	1.4000e-003	4.0000e-005	1.4400e-003	0.0000	4.6286	4.6286	2.1000e-004	1.9000e-004	4.6890
Total	4.0300e-003	0.0104	0.0281	7.0000e-005	5.6800e-003	1.0000e-004	5.7800e-003	1.5100e-003	1.0000e-004	1.6100e-003	0.0000	6.3789	6.3789	2.2000e-004	4.7000e-004	6.5214

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

3.5 Paving - 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	5.5000e-004	5.5600e-003	7.2900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.5000e-004	5.5600e-003	7.2900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0861	0.0861	0.0000	0.0000	0.0872
Total	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0861	0.0861	0.0000	0.0000	0.0872

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

3.5 Paving - 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	5.5000e-004	5.5600e-003	7.2900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.5000e-004	5.5600e-003	7.2900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.0014	1.0014	3.2000e-004	0.0000	1.0095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0861	0.0861	0.0000	0.0000	0.0872
Total	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0861	0.0861	0.0000	0.0000	0.0872

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

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

Mitigated

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

6.0 Area Detail

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

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	tons/yr										MT/yr					
Mitigated	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004
Unmitigated	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004

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	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6000e-004					0.0000	0.0000		0.0000	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	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004
Total	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6000e-004					0.0000	0.0000		0.0000	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	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004
Total	1.0200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-004	2.0000e-004	0.0000	0.0000	2.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

7.2 Water by Land Use

Unmitigated

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

7.2 Water by Land Use

Mitigated

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

**San Jose Family Camp Storm Damage Repair Project
Tuolumne County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	1.00	User Defined Unit	46.57	0.00	0
Other Asphalt Surfaces	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	66
Climate Zone	1			Operational Year	2023
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 - Based on Project Description
- Construction Phase - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Grading - Based on Project Description and Data Request
- Demolition -
- Trips and VMT -

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	43.00
tblConstructionPhase	NumDays	50.00	5.00
tblConstructionPhase	NumDays	55.00	2.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	PhaseEndDate	10/3/2025	7/20/2022
tblConstructionPhase	PhaseEndDate	7/8/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	12/19/2025	7/22/2022
tblConstructionPhase	PhaseEndDate	8/19/2022	5/20/2022
tblConstructionPhase	PhaseStartDate	12/3/2022	5/23/2022
tblConstructionPhase	PhaseStartDate	10/4/2025	7/21/2022
tblConstructionPhase	PhaseStartDate	7/9/2022	5/9/2022
tblGrading	AcresOfGrading	5.00	1.83
tblGrading	AcresOfGrading	21.50	0.00
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialImported	0.00	387.00
tblLandUse	LotAcreage	0.00	46.57
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005	0.0000	2.6100e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005	0.0000	2.6100e-003

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	5/2/2022	5/6/2022	5	5	
2	Site Preparation and Grading	Grading	5/9/2022	5/20/2022	5	10	
3	Construction	Grading	5/23/2022	7/20/2022	5	43	
4	Paving	Paving	7/21/2022	7/22/2022	5	2	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0.23

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Construction	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	0	8.00	187	0.41
Construction	Forklifts	1	8.00	89	0.20
Construction	Generator Sets	0	8.00	84	0.74

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

Site Preparation and Grading	Scrapers	0	8.00	367	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Construction	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
Construction	Graders	0	8.00	187	0.41
Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction	Welders	0	8.00	46	0.45
Construction	Scrapers	0	8.00	367	0.48
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation and Grading	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation and Grading	Rollers	1	8.00	80	0.38
Construction	Off-Highway Trucks	2	8.00	402	0.38
Construction	Rollers	1	8.00	80	0.38

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	5	13.00	0.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	6	15.00	0.00	19.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Construction	8	20.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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 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					1.0571	0.0000	1.0571	0.1601	0.0000	0.1601			0.0000			0.0000
Off-Road	1.0773	8.8842	12.5673	0.0193		0.4841	0.4841		0.4628	0.4628		1,853.0213	1,853.0213	0.4054		1,863.1571
Total	1.0773	8.8842	12.5673	0.0193	1.0571	0.4841	1.5412	0.1601	0.4628	0.6228		1,853.0213	1,853.0213	0.4054		1,863.1571

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	0.0311	1.4542	0.1764	3.6500e-003	0.0829	0.0121	0.0949	0.0226	0.0115	0.0342		385.9184	385.9184	1.4800e-003	0.0606	404.0227
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	0.1244	0.0697	0.9094	1.6300e-003	0.1661	1.2500e-003	0.1673	0.0440	1.1500e-003	0.0452		165.0531	165.0531	6.6700e-003	5.4800e-003	166.8520
Total	0.1555	1.5238	1.0857	5.2800e-003	0.2489	0.0133	0.2622	0.0667	0.0127	0.0794		550.9715	550.9715	8.1500e-003	0.0661	570.8747

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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 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					1.0571	0.0000	1.0571	0.1601	0.0000	0.1601			0.0000			0.0000
Off-Road	1.0773	8.8842	12.5673	0.0193		0.4841	0.4841		0.4628	0.4628	0.0000	1,853.021 3	1,853.021 3	0.4054		1,863.157 1
Total	1.0773	8.8842	12.5673	0.0193	1.0571	0.4841	1.5412	0.1601	0.4628	0.6228	0.0000	1,853.021 3	1,853.021 3	0.4054		1,863.157 1

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	0.0311	1.4542	0.1764	3.6500e-003	0.0829	0.0121	0.0949	0.0226	0.0115	0.0342		385.9184	385.9184	1.4800e-003	0.0606	404.0227
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	0.1244	0.0697	0.9094	1.6300e-003	0.1661	1.2500e-003	0.1673	0.0440	1.1500e-003	0.0452		165.0531	165.0531	6.6700e-003	5.4800e-003	166.8520
Total	0.1555	1.5238	1.0857	5.2800e-003	0.2489	0.0133	0.2622	0.0667	0.0127	0.0794		550.9715	550.9715	8.1500e-003	0.0661	570.8747

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.3 Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2179	0.0000	6.2179	3.3314	0.0000	3.3314			0.0000			0.0000
Off-Road	1.6066	16.0905	13.4007	0.0233		0.7991	0.7991		0.7366	0.7366		2,241.3629	2,241.3629	0.7117		2,259.1563
Total	1.6066	16.0905	13.4007	0.0233	6.2179	0.7991	7.0170	3.3314	0.7366	4.0680		2,241.3629	2,241.3629	0.7117		2,259.1563

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	0.0123	0.5756	0.0698	1.4400e-003	0.0328	4.7700e-003	0.0376	8.9500e-003	4.5700e-003	0.0135		152.7594	152.7594	5.9000e-004	0.0240	159.9257
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	0.1435	0.0804	1.0493	1.8800e-003	0.1916	1.4400e-003	0.1930	0.0508	1.3300e-003	0.0521		190.4459	190.4459	7.6900e-003	6.3200e-003	192.5215
Total	0.1558	0.6560	1.1191	3.3200e-003	0.2244	6.2100e-003	0.2306	0.0598	5.9000e-003	0.0657		343.2052	343.2052	8.2800e-003	0.0303	352.4472

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.3 Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2179	0.0000	6.2179	3.3314	0.0000	3.3314			0.0000			0.0000
Off-Road	1.6066	16.0905	13.4007	0.0233		0.7991	0.7991		0.7366	0.7366	0.0000	2,241.3629	2,241.3629	0.7117		2,259.1563
Total	1.6066	16.0905	13.4007	0.0233	6.2179	0.7991	7.0170	3.3314	0.7366	4.0680	0.0000	2,241.3629	2,241.3629	0.7117		2,259.1563

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	0.0123	0.5756	0.0698	1.4400e-003	0.0328	4.7700e-003	0.0376	8.9500e-003	4.5700e-003	0.0135		152.7594	152.7594	5.9000e-004	0.0240	159.9257
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	0.1435	0.0804	1.0493	1.8800e-003	0.1916	1.4400e-003	0.1930	0.0508	1.3300e-003	0.0521		190.4459	190.4459	7.6900e-003	6.3200e-003	192.5215
Total	0.1558	0.6560	1.1191	3.3200e-003	0.2244	6.2100e-003	0.2306	0.0598	5.9000e-003	0.0657		343.2052	343.2052	8.2800e-003	0.0303	352.4472

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.4 Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0231	0.0000	6.0231	3.3104	0.0000	3.3104			0.0000			0.0000
Off-Road	2.9171	27.2571	20.7091	0.0533		1.2286	1.2286		1.1303	1.1303		5,156.8053	5,156.8053	1.6678		5,198.5007
Total	2.9171	27.2571	20.7091	0.0533	6.0231	1.2286	7.2517	3.3104	1.1303	4.4407		5,156.8053	5,156.8053	1.6678		5,198.5007

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2200e-003	0.3382	0.0410	8.5000e-004	0.0193	2.8000e-003	0.0221	5.2600e-003	2.6800e-003	7.9400e-003		89.7485	89.7485	3.4000e-004	0.0141	93.9588
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	0.1914	0.1072	1.3990	2.5100e-003	0.2555	1.9200e-003	0.2574	0.0678	1.7700e-003	0.0695		253.9278	253.9278	0.0103	8.4300e-003	256.6954
Total	0.1986	0.4453	1.4400	3.3600e-003	0.2747	4.7200e-003	0.2795	0.0730	4.4500e-003	0.0775		343.6763	343.6763	0.0106	0.0225	350.6542

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.4 Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0231	0.0000	6.0231	3.3104	0.0000	3.3104			0.0000			0.0000
Off-Road	2.9171	27.2571	20.7091	0.0533		1.2286	1.2286		1.1303	1.1303	0.0000	5,156.8053	5,156.8053	1.6678		5,198.5007
Total	2.9171	27.2571	20.7091	0.0533	6.0231	1.2286	7.2517	3.3104	1.1303	4.4407	0.0000	5,156.8053	5,156.8053	1.6678		5,198.5007

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2200e-003	0.3382	0.0410	8.5000e-004	0.0193	2.8000e-003	0.0221	5.2600e-003	2.6800e-003	7.9400e-003		89.7485	89.7485	3.4000e-004	0.0141	93.9588
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	0.1914	0.1072	1.3990	2.5100e-003	0.2555	1.9200e-003	0.2574	0.0678	1.7700e-003	0.0695		253.9278	253.9278	0.0103	8.4300e-003	256.6954
Total	0.1986	0.4453	1.4400	3.3600e-003	0.2747	4.7200e-003	0.2795	0.0730	4.4500e-003	0.0775		343.6763	343.6763	0.0106	0.0225	350.6542

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.5 Paving - 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	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	0.3013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8527	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0765	0.0429	0.5596	1.0000e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		101.5711	101.5711	4.1000e-003	3.3700e-003	102.6782
Total	0.0765	0.0429	0.5596	1.0000e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		101.5711	101.5711	4.1000e-003	3.3700e-003	102.6782

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	0.3013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8527	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0765	0.0429	0.5596	1.0000e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		101.5711	101.5711	4.1000e-003	3.3700e-003	102.6782
Total	0.0765	0.0429	0.5596	1.0000e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		101.5711	101.5711	4.1000e-003	3.3700e-003	102.6782

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.398947	0.076285	0.208230	0.170724	0.065991	0.011574	0.007403	0.003656	0.001142	0.000414	0.044570	0.002045	0.009017
User Defined Recreational	0.398947	0.076285	0.208230	0.170724	0.065991	0.011574	0.007403	0.003656	0.001142	0.000414	0.044570	0.002045	0.009017

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Summer

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

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	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Unmitigated	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	1.9400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

**San Jose Family Camp Storm Damage Repair Project
Tuolumne County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	1.00	User Defined Unit	46.57	0.00	0
Other Asphalt Surfaces	10.20	1000sqft	0.23	10,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	66
Climate Zone	1			Operational Year	2023
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 - Based on Project Description
- Construction Phase - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Off-road Equipment - Based on Project Description and Data Request
- Grading - Based on Project Description and Data Request
- Demolition -
- Trips and VMT -

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	43.00
tblConstructionPhase	NumDays	50.00	5.00
tblConstructionPhase	NumDays	55.00	2.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	PhaseEndDate	10/3/2025	7/20/2022
tblConstructionPhase	PhaseEndDate	7/8/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	12/19/2025	7/22/2022
tblConstructionPhase	PhaseEndDate	8/19/2022	5/20/2022
tblConstructionPhase	PhaseStartDate	12/3/2022	5/23/2022
tblConstructionPhase	PhaseStartDate	10/4/2025	7/21/2022
tblConstructionPhase	PhaseStartDate	7/9/2022	5/9/2022
tblGrading	AcresOfGrading	5.00	1.83
tblGrading	AcresOfGrading	21.50	0.00
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialImported	0.00	387.00
tblLandUse	LotAcreage	0.00	46.57
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005	0.0000	2.6100e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005	0.0000	2.6100e-003

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	5/2/2022	5/6/2022	5	5	
2	Site Preparation and Grading	Grading	5/9/2022	5/20/2022	5	10	
3	Construction	Grading	5/23/2022	7/20/2022	5	43	
4	Paving	Paving	7/21/2022	7/22/2022	5	2	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.83

Acres of Paving: 0.23

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation and Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Construction	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Graders	0	8.00	187	0.41
Construction	Forklifts	1	8.00	89	0.20
Construction	Generator Sets	0	8.00	84	0.74

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

Site Preparation and Grading	Scrapers	0	8.00	367	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Construction	Excavators	1	8.00	158	0.38
Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
Construction	Graders	0	8.00	187	0.41
Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Construction	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation and Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Construction	Welders	0	8.00	46	0.45
Construction	Scrapers	0	8.00	367	0.48
Demolition	Air Compressors	2	8.00	78	0.48
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation and Grading	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation and Grading	Rollers	1	8.00	80	0.38
Construction	Off-Highway Trucks	2	8.00	402	0.38
Construction	Rollers	1	8.00	80	0.38

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	5	13.00	0.00	24.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading	6	15.00	0.00	19.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Construction	8	20.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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 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					1.0571	0.0000	1.0571	0.1601	0.0000	0.1601			0.0000			0.0000
Off-Road	1.0773	8.8842	12.5673	0.0193		0.4841	0.4841		0.4628	0.4628		1,853.0213	1,853.0213	0.4054		1,863.1571
Total	1.0773	8.8842	12.5673	0.0193	1.0571	0.4841	1.5412	0.1601	0.4628	0.6228		1,853.0213	1,853.0213	0.4054		1,863.1571

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	0.0307	1.5468	0.1765	3.6500e-003	0.0829	0.0121	0.0950	0.0226	0.0116	0.0342		385.7976	385.7976	1.4600e-003	0.0606	403.8993
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	0.1292	0.0914	0.8278	1.5000e-003	0.1661	1.2500e-003	0.1673	0.0440	1.1500e-003	0.0452		151.9429	151.9429	7.1600e-003	6.5800e-003	154.0840
Total	0.1599	1.6382	1.0043	5.1500e-003	0.2489	0.0134	0.2623	0.0667	0.0127	0.0794		537.7405	537.7405	8.6200e-003	0.0672	557.9833

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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 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					1.0571	0.0000	1.0571	0.1601	0.0000	0.1601			0.0000			0.0000
Off-Road	1.0773	8.8842	12.5673	0.0193		0.4841	0.4841		0.4628	0.4628	0.0000	1,853.021 3	1,853.021 3	0.4054		1,863.157 1
Total	1.0773	8.8842	12.5673	0.0193	1.0571	0.4841	1.5412	0.1601	0.4628	0.6228	0.0000	1,853.021 3	1,853.021 3	0.4054		1,863.157 1

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	0.0307	1.5468	0.1765	3.6500e-003	0.0829	0.0121	0.0950	0.0226	0.0116	0.0342		385.7976	385.7976	1.4600e-003	0.0606	403.8993
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	0.1292	0.0914	0.8278	1.5000e-003	0.1661	1.2500e-003	0.1673	0.0440	1.1500e-003	0.0452		151.9429	151.9429	7.1600e-003	6.5800e-003	154.0840
Total	0.1599	1.6382	1.0043	5.1500e-003	0.2489	0.0134	0.2623	0.0667	0.0127	0.0794		537.7405	537.7405	8.6200e-003	0.0672	557.9833

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.3 Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2179	0.0000	6.2179	3.3314	0.0000	3.3314			0.0000			0.0000
Off-Road	1.6066	16.0905	13.4007	0.0233		0.7991	0.7991		0.7366	0.7366		2,241.3629	2,241.3629	0.7117		2,259.1563
Total	1.6066	16.0905	13.4007	0.0233	6.2179	0.7991	7.0170	3.3314	0.7366	4.0680		2,241.3629	2,241.3629	0.7117		2,259.1563

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	0.0122	0.6123	0.0699	1.4400e-003	0.0328	4.7900e-003	0.0376	8.9500e-003	4.5800e-003	0.0135		152.7116	152.7116	5.8000e-004	0.0240	159.8768
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	0.1491	0.1054	0.9551	1.7300e-003	0.1916	1.4400e-003	0.1930	0.0508	1.3300e-003	0.0521		175.3187	175.3187	8.2600e-003	7.6000e-003	177.7892
Total	0.1612	0.7177	1.0250	3.1700e-003	0.2244	6.2300e-003	0.2306	0.0598	5.9100e-003	0.0657		328.0303	328.0303	8.8400e-003	0.0316	337.6660

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.3 Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2179	0.0000	6.2179	3.3314	0.0000	3.3314			0.0000			0.0000
Off-Road	1.6066	16.0905	13.4007	0.0233		0.7991	0.7991		0.7366	0.7366	0.0000	2,241.3629	2,241.3629	0.7117		2,259.1563
Total	1.6066	16.0905	13.4007	0.0233	6.2179	0.7991	7.0170	3.3314	0.7366	4.0680	0.0000	2,241.3629	2,241.3629	0.7117		2,259.1563

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	0.0122	0.6123	0.0699	1.4400e-003	0.0328	4.7900e-003	0.0376	8.9500e-003	4.5800e-003	0.0135		152.7116	152.7116	5.8000e-004	0.0240	159.8768
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	0.1491	0.1054	0.9551	1.7300e-003	0.1916	1.4400e-003	0.1930	0.0508	1.3300e-003	0.0521		175.3187	175.3187	8.2600e-003	7.6000e-003	177.7892
Total	0.1612	0.7177	1.0250	3.1700e-003	0.2244	6.2300e-003	0.2306	0.0598	5.9100e-003	0.0657		328.0303	328.0303	8.8400e-003	0.0316	337.6660

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.4 Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0231	0.0000	6.0231	3.3104	0.0000	3.3104			0.0000			0.0000
Off-Road	2.9171	27.2571	20.7091	0.0533		1.2286	1.2286		1.1303	1.1303		5,156.8053	5,156.8053	1.6678		5,198.5007
Total	2.9171	27.2571	20.7091	0.0533	6.0231	1.2286	7.2517	3.3104	1.1303	4.4407		5,156.8053	5,156.8053	1.6678		5,198.5007

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1500e-003	0.3597	0.0411	8.5000e-004	0.0193	2.8100e-003	0.0221	5.2600e-003	2.6900e-003	7.9500e-003		89.7204	89.7204	3.4000e-004	0.0141	93.9301
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	0.1987	0.1406	1.2735	2.3100e-003	0.2555	1.9200e-003	0.2574	0.0678	1.7700e-003	0.0695		233.7583	233.7583	0.0110	0.0101	237.0523
Total	0.2059	0.5003	1.3146	3.1600e-003	0.2747	4.7300e-003	0.2795	0.0730	4.4600e-003	0.0775		323.4787	323.4787	0.0114	0.0242	330.9824

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.4 Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0231	0.0000	6.0231	3.3104	0.0000	3.3104			0.0000			0.0000
Off-Road	2.9171	27.2571	20.7091	0.0533		1.2286	1.2286		1.1303	1.1303	0.0000	5,156.805 3	5,156.805 3	1.6678		5,198.500 7
Total	2.9171	27.2571	20.7091	0.0533	6.0231	1.2286	7.2517	3.3104	1.1303	4.4407	0.0000	5,156.805 3	5,156.805 3	1.6678		5,198.500 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1500e-003	0.3597	0.0411	8.5000e-004	0.0193	2.8100e-003	0.0221	5.2600e-003	2.6900e-003	7.9500e-003		89.7204	89.7204	3.4000e-004	0.0141	93.9301
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	0.1987	0.1406	1.2735	2.3100e-003	0.2555	1.9200e-003	0.2574	0.0678	1.7700e-003	0.0695		233.7583	233.7583	0.0110	0.0101	237.0523
Total	0.2059	0.5003	1.3146	3.1600e-003	0.2747	4.7300e-003	0.2795	0.0730	4.4600e-003	0.0775		323.4787	323.4787	0.0114	0.0242	330.9824

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.5 Paving - 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	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	0.3013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8527	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612		1,103.830 2	1,103.830 2	0.3570		1,112.755 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0795	0.0562	0.5094	9.3000e-004	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		93.5033	93.5033	4.4100e-003	4.0500e-003	94.8209
Total	0.0795	0.0562	0.5094	9.3000e-004	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		93.5033	93.5033	4.4100e-003	4.0500e-003	94.8209

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5514	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2
Paving	0.3013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8527	5.5624	7.2902	0.0114		0.2840	0.2840		0.2612	0.2612	0.0000	1,103.830 2	1,103.830 2	0.3570		1,112.755 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0795	0.0562	0.5094	9.3000e-004	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		93.5033	93.5033	4.4100e-003	4.0500e-003	94.8209
Total	0.0795	0.0562	0.5094	9.3000e-004	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		93.5033	93.5033	4.4100e-003	4.0500e-003	94.8209

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.398947	0.076285	0.208230	0.170724	0.065991	0.011574	0.007403	0.003656	0.001142	0.000414	0.044570	0.002045	0.009017
User Defined Recreational	0.398947	0.076285	0.208230	0.170724	0.065991	0.011574	0.007403	0.003656	0.001142	0.000414	0.044570	0.002045	0.009017

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

San Jose Family Camp Storm Damage Repair Project - Tuolumne County, Winter

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

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	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Unmitigated	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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	1.9400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003
Total	5.6600e-003	1.0000e-005	1.1400e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.4500e-003	2.4500e-003	1.0000e-005		2.6100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

San Jose Family Camp Storm Damage Repair Project - Tuolumne 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
