
APPENDIX A

Air Quality Calculations

August Meadows Event Venue - Merced County, Annual

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

**August Meadows Event Venue
Merced County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Quality Restaurant	9.70	1000sqft	0.22	9,700.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	49
Climate Zone	3			Operational Year	2023
Utility Company	Turlock Irrigation District				
CO2 Intensity (lb/MW hr)	607.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Quality Restaurant used as basis for analysis of event venue

Construction Phase - Default parameters used. No demolition

Vehicle Trips - Max 26.3 ADT estimated based on 48 annual events with an average of 200 guests per event, plus vendors. Based on 9,700 sq. ft., 2.7 ADT/1,000 sq. ft.

Water And Wastewater - Applicant provided water use. Septic onsite.

Solid Waste - Solid waste estimated at 2 cu.yd/event

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	8.85	1.11
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00

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tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	ST_TR	90.04	2.70
tblVehicleTrips	SU_TR	71.97	2.70
tblVehicleTrips	WD_TR	83.84	2.70
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,944,277.01	11,876.00
tblWater	OutdoorWaterUseRate	187,932.58	0.00
tblWater	SepticTankPercent	10.33	100.00

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.2225	0.2225
2	4-3-2022	7-2-2022	0.2763	0.2763
		Highest	0.2763	0.2763

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	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	0.0110	0.0999	0.0839	6.0000e-004		7.5900e-003	7.5900e-003		7.5900e-003	7.5900e-003	0.0000	184.3559	184.3559	6.1900e-003	2.4900e-003	185.2529
Mobile	0.0143	0.0327	0.1337	3.2000e-004	0.0272	3.3000e-004	0.0275	7.2900e-003	3.1000e-004	7.6000e-003	0.0000	29.5139	29.5139	1.5300e-003	2.0100e-003	30.1497
Waste						0.0000	0.0000		0.0000	0.0000	0.2253	0.0000	0.2253	0.0133	0.0000	0.5582
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0177	0.0177	2.7000e-003	1.0000e-005	0.0879
Total	0.0699	0.1325	0.2177	9.2000e-004	0.0272	7.9200e-003	0.0351	7.2900e-003	7.9000e-003	0.0152	0.2253	213.8877	214.1130	0.0237	4.5100e-003	216.0490

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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	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Energy	0.0110	0.0999	0.0839	6.0000e-004		7.5900e-003	7.5900e-003		7.5900e-003	7.5900e-003	0.0000	184.3559	184.3559	6.1900e-003	2.4900e-003	185.2529
Mobile	0.0143	0.0327	0.1337	3.2000e-004	0.0272	3.3000e-004	0.0275	7.2900e-003	3.1000e-004	7.6000e-003	0.0000	29.5139	29.5139	1.5300e-003	2.0100e-003	30.1497
Waste						0.0000	0.0000		0.0000	0.0000	0.2253	0.0000	0.2253	0.0133	0.0000	0.5582
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0177	0.0177	2.7000e-003	1.0000e-005	0.0879
Total	0.0699	0.1325	0.2177	9.2000e-004	0.0272	7.9200e-003	0.0351	7.2900e-003	7.9000e-003	0.0152	0.2253	213.8877	214.1130	0.0237	4.5100e-003	216.0490

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	1/15/2022	1/17/2022	5	1	
2	Grading	Grading	1/18/2022	1/19/2022	5	2	
3	Building Construction	Building Construction	1/20/2022	6/8/2022	5	100	

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4	Paving	Paving	6/9/2022	6/15/2022	5	5
5	Architectural Coating	Architectural Coating	6/16/2022	6/22/2022	5	5

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 14,550; Non-Residential Outdoor: 4,850; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	4.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
Total	2.9000e-004	3.4700e-003	1.9800e-003	0.0000	2.7000e-004	1.3000e-004	4.0000e-004	3.0000e-005	1.2000e-004	1.5000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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3.2 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266
Total	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
Total	2.9000e-004	3.4700e-003	1.9800e-003	0.0000	2.7000e-004	1.3000e-004	4.0000e-004	3.0000e-005	1.2000e-004	1.5000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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3.2 Site Preparation - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266
Total	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266

3.3 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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
Total	1.0800e-003	0.0120	5.9400e-003	1.0000e-005	5.3100e-003	5.2000e-004	5.8300e-003	2.5700e-003	4.8000e-004	3.0500e-003	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482

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3.3 Grading - 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	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	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0841	0.0841	0.0000	0.0000	0.0850
Total	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0841	0.0841	0.0000	0.0000	0.0850

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
Total	1.0800e-003	0.0120	5.9400e-003	1.0000e-005	5.3100e-003	5.2000e-004	5.8300e-003	2.5700e-003	4.8000e-004	3.0500e-003	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482

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3.3 Grading - 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	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	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0841	0.0841	0.0000	0.0000	0.0850
Total	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0841	0.0841	0.0000	0.0000	0.0850

3.4 Building 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					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787
Total	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787

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3.4 Building Construction - 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	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	2.1000e-004	5.1500e-003	1.6400e-003	2.0000e-005	6.0000e-004	6.0000e-005	6.5000e-004	1.7000e-004	5.0000e-005	2.3000e-004	0.0000	1.8460	1.8460	1.0000e-005	2.8000e-004	1.9282
Worker	1.0500e-003	8.6000e-004	9.5000e-003	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1021	2.1021	7.0000e-005	7.0000e-005	2.1237
Total	1.2600e-003	6.0100e-003	0.0111	4.0000e-005	3.0800e-003	8.0000e-005	3.1500e-003	8.3000e-004	6.0000e-005	9.0000e-004	0.0000	3.9481	3.9481	8.0000e-005	3.5000e-004	4.0519

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787
Total	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787

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3.4 Building Construction - 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	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	2.1000e-004	5.1500e-003	1.6400e-003	2.0000e-005	6.0000e-004	6.0000e-005	6.5000e-004	1.7000e-004	5.0000e-005	2.3000e-004	0.0000	1.8460	1.8460	1.0000e-005	2.8000e-004	1.9282
Worker	1.0500e-003	8.6000e-004	9.5000e-003	2.0000e-005	2.4800e-003	2.0000e-005	2.5000e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.1021	2.1021	7.0000e-005	7.0000e-005	2.1237
Total	1.2600e-003	6.0100e-003	0.0111	4.0000e-005	3.0800e-003	8.0000e-005	3.1500e-003	8.3000e-004	6.0000e-005	9.0000e-004	0.0000	3.9481	3.9481	8.0000e-005	3.5000e-004	4.0519

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	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

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

3.5 Paving - 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	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	2.4000e-004	1.9000e-004	2.1400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4730	0.4730	2.0000e-005	1.0000e-005	0.4778
Total	2.4000e-004	1.9000e-004	2.1400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4730	0.4730	2.0000e-005	1.0000e-005	0.4778

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

August Meadows Event Venue - Merced 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 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	2.4000e-004	1.9000e-004	2.1400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4730	0.4730	2.0000e-005	1.0000e-005	0.4778
Total	2.4000e-004	1.9000e-004	2.1400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4730	0.4730	2.0000e-005	1.0000e-005	0.4778

3.6 Architectural Coating - 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					
Archit. Coating	0.0674					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.0680	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266
Total	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0266

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					
Archit. Coating	0.0674					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.0680	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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

3.6 Architectural Coating - 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	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	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	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0000	0.0266
Total	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0263	0.0263	0.0000	0.0000	0.0000	0.0266

August Meadows Event Venue - Merced 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	0.0143	0.0327	0.1337	3.2000e-004	0.0272	3.3000e-004	0.0275	7.2900e-003	3.1000e-004	7.6000e-003	0.0000	29.5139	29.5139	1.5300e-003	2.0100e-003	30.1497
Unmitigated	0.0143	0.0327	0.1337	3.2000e-004	0.0272	3.3000e-004	0.0275	7.2900e-003	3.1000e-004	7.6000e-003	0.0000	29.5139	29.5139	1.5300e-003	2.0100e-003	30.1497

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Quality Restaurant	26.19	26.19	26.19	72,185	72,185
Total	26.19	26.19	26.19	72,185	72,185

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
Quality Restaurant	14.70	6.60	6.60	12.00	69.00	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.507674	0.048153	0.157435	0.157913	0.031283	0.007497	0.013742	0.047950	0.000797	0.000458	0.021748	0.002230	0.003119

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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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	75.6228	75.6228	4.1000e-003	5.0000e-004	75.8737
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	75.6228	75.6228	4.1000e-003	5.0000e-004	75.8737
NaturalGas Mitigated	0.0110	0.0999	0.0839	6.0000e-004		7.5900e-003	7.5900e-003		7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793
NaturalGas Unmitigated	0.0110	0.0999	0.0839	6.0000e-004		7.5900e-003	7.5900e-003		7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793

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

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	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	tons/yr																MT/yr
Quality Restaurant +006	2.03758e+006	0.0110	0.0999	0.0839	6.0000e-004	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793	
Total		0.0110	0.0999	0.0839	6.0000e-004	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793	

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	tons/yr																MT/yr
Quality Restaurant +006	2.03758e+006	0.0110	0.0999	0.0839	6.0000e-004	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793	
Total		0.0110	0.0999	0.0839	6.0000e-004	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	7.5900e-003	0.0000	108.7331	108.7331	2.0800e-003	1.9900e-003	109.3793	

August Meadows Event Venue - Merced 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			
Quality	274219	4.1000e-003	5.0000e-004	75.8737
Restaurant	75.6228	4.1000e-003	5.0000e-004	75.8737
Total	75.6228	4.1000e-003	5.0000e-004	75.8737

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr			
Quality	274219	4.1000e-003	5.0000e-004	75.8737
Restaurant	75.6228	4.1000e-003	5.0000e-004	75.8737
Total	75.6228	4.1000e-003	5.0000e-004	75.8737

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	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Unmitigated	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-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	6.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0379					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	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Total	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004

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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	6.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0379					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	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004
Total	0.0446	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7000e-004	1.7000e-004	0.0000	0.0000	1.8000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

August Meadows Event Venue - Merced County, Annual

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	0.0177	2.7000e-003	1.0000e-005	0.0879
Unmitigated	0.0177	2.7000e-003	1.0000e-005	0.0879

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	0.011876 / 0	0.0177	2.7000e-003	1.0000e-005	0.0879
Total		0.0177	2.7000e-003	1.0000e-005	0.0879

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	0.011876 / 0	0.0177	2.7000e-003	1.0000e-005	0.0879
Total		0.0177	2.7000e-003	1.0000e-005	0.0879

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2253	0.0133	0.0000	0.5582
Unmitigated	0.2253	0.0133	0.0000	0.5582

August Meadows Event Venue - Merced 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
tons	MT/yr			
Land Use	1.11	0.2253	0.0133	0.5582
Quality Restaurant				
Total	0.2253	0.0133	0.0000	0.5582

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
Land Use	1.11	0.2253	0.0133	0.5582
Quality Restaurant				
Total	0.2253	0.0133	0.0000	0.5582

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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August Meadows Event Venue - Merced 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

APPENDIX B

CNDDDB Special Status Species and Sensitive Habitats
in the Nine-Quad Area Surrounding the
August Meadows Project Site

CNDDDB Special Status Species and Sensitive Habitats in the Nine-Quad Area
Surrounding the August Meadows Project Site

Scientific Name	Common Name	Federal Status	State Status	CDFW Status ¹	CNPS Rare Plant Rank ²
PLANTS					
<i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch	None	None		1B.2
<i>Atriplex cordulata</i> var. <i>cordulata</i>	heartscale	None	None		1B.2
<i>Atriplex depressa</i>	brittlescale	None	None		1B.2
<i>Atriplex minuscula</i>	lesser saltscale	None	None		1B.1
<i>Atriplex persistens</i>	vernal pool smallscale	None	None		1B.2
<i>Atriplex subtilis</i>	subtle orache	None	None		1B.2
<i>Calycadenia hooveri</i>	Hoover's calycadenia	None	None		1B.3
<i>Castilleja campestris</i> var. <i>succulenta</i>	succulent owl's-clover	Threatened	Endangered		1B.2
<i>Chloropyron molle</i> ssp. <i>hispidum</i>	hispid salty bird's-beak	None	None		1B.1
<i>Eryngium racemosum</i>	Delta button-celery	None	Endangered		1B.1
<i>Eryngium spinosepalum</i>	spiny-sepaled button-celery	None	None		1B.2
<i>Euphorbia hooveri</i>	Hoover's spurge	Threatened	None		1B.2
<i>Extriplex joaquinana</i>	San Joaquin spearscale	None	None		1B.2
<i>Lasthenia chrysantha</i>	alkali-sink goldfields	None	None		1B.1
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	None	None		1B.1
<i>Lepidium latipes</i> var. <i>heckardii</i>	Heckard's pepper-grass	None	None		1B.2
<i>Monardella leucocephala</i>	Merced monardella	None	None		1A
<i>Navarretia prostrata</i>	prostrate vernal pool navarretia	None	None		1B.2
<i>Neostapfia colusana</i>	Colusa grass	Threatened	Endangered		1B.1
<i>Orcuttia inaequalis</i>	San Joaquin Valley Orcutt grass	Threatened	Endangered		1B.1
<i>Orcuttia pilosa</i>	hairy Orcutt grass	Endangered	Endangered		1B.1
<i>Puccinellia simplex</i>	California alkali grass	None	None		1B.2
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	None	None		1B.2
<i>Trichocoronis wrightii</i> var. <i>wrightii</i>	Wright's trichocoronis	None	None		2B.1
<i>Tuctoria greenei</i>	Greene's tuctoria	Endangered	Rare		1B.1

¹ See legend at end of table.

² See legend at end of table.

Scientific Name	Common Name	Federal Status	State Status	CDFW Status ¹	CNPS Rare Plant Rank ²
AMPHIBIANS					
Ambystoma californiense pop. 1	California tiger salamander - central CA DPS	Threatened	Threatened	WL	
Spea hammondi	western spadefoot	None	None	SSC	
BIRDS					
Agelaius tricolor	tricolored blackbird	None	Threatened	SSC	
Ardea alba	great egret	None	None		
Ardea herodias	great blue heron	None	None		
Branta hutchinsii leucopareia	cackling (=Aleutian Canada) goose	Delisted	None	WL	
Buteo swainsoni	Swainson's hawk	None	Threatened		
Lanius ludovicianus	loggerhead shrike	None	None	SSC	
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered		
FISH					
Mylopharodon conocephalus	hardhead	None	None	SSC	
Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	Threatened	None		
INSECTS					
Bombus caliginosus	obscure bumble bee	None	None		
Bombus crotchii	Crotch bumble bee	None	Candidate Endangered		
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	Threatened	None		
Lytta molesta	molestan blister beetle	None	None		
CRUSTACEANS					
Branchinecta conservatio	Conservancy fairy shrimp	Endangered	None		
Branchinecta longiantenna	longhorn fairy shrimp	Endangered	None		
Branchinecta lynchi	vernal pool fairy shrimp	Threatened	None		
Branchinecta mesovallensis	midvalley fairy shrimp	None	None		
Lepidurus packardii	vernal pool tadpole shrimp	Endangered	None		
Linderiella occidentalis	California linderiella	None	None		
MAMMALS					
Antrozous pallidus	pallid bat	None	None	SSC	
Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	
Dipodomys heermanni dixonii	Merced kangaroo rat	None	None		

Scientific Name	Common Name	Federal Status	State Status	CDFW Status ¹	CNPS Rare Plant Rank ²
<i>Lasiurus blossevillii</i>	western red bat	None	None	SSC	
<i>Lasiurus cinereus</i>	hoary bat	None	None		
<i>Myotis yumanensis</i>	Yuma myotis	None	None		
<i>Taxidea taxus</i>	American badger	None	None	SSC	
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Endangered	Threatened		
REPTILES					
<i>Anniella pulchra</i>	Northern California legless lizard	None	None	SSC	
<i>Emys marmorata</i>	western pond turtle	None	None	SSC	
<i>Phrynosoma blainvillii</i>	coast horned lizard	None	None	SSC	
<i>Thamnophis gigas</i>	giant gartersnake	Threatened	Threatened		
HABITAT / NATURAL COMMUNITIES					
Northern Claypan Vernal Pool	Northern Claypan Vernal Pool	None	None		
Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	None	None		
Valley Sacaton Grassland	Valley Sacaton Grassland	None	None		
Cismontane Alkali Marsh	Cismontane Alkali Marsh	None	None		
Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None		
Valley Sink Scrub	Valley Sink Scrub	None	None		
MOLLUSKS					
<i>Gonidea angulata</i>	western ridged mussel	None	None		
¹ Status (CDFW) SSC = State species of special concern FP = California fully protected species WL = Waitlisted	² Status (CNPS) List 1B – Plants rare, threatened, or endangered in California and elsewhere List 2B – Plants rare, threatened, or endangered in California, but more common elsewhere List 3.2 – Moderately threatened in California				