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## **APPENDIX A**

### **CALEEMOD AIR QUALITY/GREENHOUSE GAS EMISSIONS REPORTS**

Fall River Valley CSD – Two Rivers Park

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Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**Two Rivers Park Project: Phase 2  
Shasta County AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.23	Acre	0.23	10,018.80	0
Other Non-Asphalt Surfaces	0.46	Acre	0.46	20,037.60	0
City Park	35.00	Acre	35.00	1,050.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	82
<b>Climate Zone</b>	3	<b>Operational Year</b>	2024		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Square footage and acres based on project plans. 450 SF public restroom; 900 SF pavillion over a picnic area. Asphalt-new access road and paving of existing trail.

Construction Phase - Construction schedule based on projecty characteristics.

Trips and VMT - There is no demolition phase for the project.

Grading - Grading information based on project engineer information

Architectural Coating - Architectural coatings - paint for the structures.

Water And Wastewater - There is no irrigation system for the park. Indoor water use is attributed to the restroom - estimated at 50 gallons per day. Water for water fountain would be minimal.

Energy Mitigation - Renewable energy generated based on project engineer information

Off-road Equipment - Construction equipment based on project characteristics.

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment -

Area Coating - No paint used in new parking area.

Construction Off-road Equipment Mitigation - Per adopted Mitigation Measures

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Parking	1803	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	740.00	30.00
tblConstructionPhase	NumDays	55.00	30.00
tblConstructionPhase	NumDays	55.00	30.00
tblConstructionPhase	PhaseEndDate	8/19/2022	6/10/2022
tblConstructionPhase	PhaseEndDate	12/2/2022	7/22/2022
tblConstructionPhase	PhaseEndDate	10/3/2025	9/2/2022
tblConstructionPhase	PhaseEndDate	12/19/2025	10/14/2022
tblConstructionPhase	PhaseEndDate	3/6/2026	11/25/2022
tblConstructionPhase	PhaseStartDate	7/9/2022	5/2/2022
tblConstructionPhase	PhaseStartDate	8/20/2022	6/13/2022
tblConstructionPhase	PhaseStartDate	12/3/2022	7/25/2022
tblConstructionPhase	PhaseStartDate	10/4/2025	9/5/2022
tblConstructionPhase	PhaseStartDate	12/20/2025	10/17/2022
tblGrading	AcresOfGrading	52.50	1.60
tblGrading	AcresOfGrading	22.50	2.50

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

tblGrading	MaterialImported	0.00	750.00
tblLandUse	LandUseSquareFeet	1,524,600.00	1,050.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblWater	IndoorWaterUseRate	0.00	18,250.00
tblWater	OutdoorWaterUseRate	41,701,847.24	0.00

**2.0 Emissions Summary**



Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0401	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.8100e-003	7.8100e-003	2.0000e-005		8.3200e-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	0.3471	0.4169	2.4100	4.4500e-003	0.4005	4.8500e-003	0.4054	0.1070	4.5700e-003	0.1116		453.2309	453.2309	0.0284	0.0254	461.5098
<b>Total</b>	<b>0.3873</b>	<b>0.4170</b>	<b>2.4136</b>	<b>4.4500e-003</b>	<b>0.4005</b>	<b>4.8600e-003</b>	<b>0.4054</b>	<b>0.1070</b>	<b>4.5800e-003</b>	<b>0.1116</b>		<b>453.2387</b>	<b>453.2387</b>	<b>0.0284</b>	<b>0.0254</b>	<b>461.5181</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0401	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.8100e-003	7.8100e-003	2.0000e-005		8.3200e-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	0.3471	0.4169	2.4100	4.4500e-003	0.4005	4.8500e-003	0.4054	0.1070	4.5700e-003	0.1116		453.2309	453.2309	0.0284	0.0254	461.5098
<b>Total</b>	<b>0.3873</b>	<b>0.4170</b>	<b>2.4136</b>	<b>4.4500e-003</b>	<b>0.4005</b>	<b>4.8600e-003</b>	<b>0.4054</b>	<b>0.1070</b>	<b>4.5800e-003</b>	<b>0.1116</b>		<b>453.2387</b>	<b>453.2387</b>	<b>0.0284</b>	<b>0.0254</b>	<b>461.5181</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2022	6/10/2022	5	30	
2	Grading	Grading	6/13/2022	7/22/2022	5	30	
3	Building Construction	Building Construction	7/25/2022	9/2/2022	5	30	
4	Paving	Paving	9/5/2022	10/14/2022	5	30	
5	Architectural Coating	Architectural Coating	10/17/2022	11/25/2022	5	30	

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 1.6**

**Acres of Paving: 0.69**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,575; Non-Residential Outdoor: 525; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	6.00	367	0.48



Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	94.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	10.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1215	0.0000	9.1215	4.9749	0.0000	4.9749			0.0000			0.0000
Off-Road	1.5027	15.7039	8.7299	0.0175		0.7612	0.7612		0.7003	0.7003		1,692.4115	1,692.4115	0.5474		1,706.0955
<b>Total</b>	<b>1.5027</b>	<b>15.7039</b>	<b>8.7299</b>	<b>0.0175</b>	<b>9.1215</b>	<b>0.7612</b>	<b>9.8827</b>	<b>4.9749</b>	<b>0.7003</b>	<b>5.6752</b>		<b>1,692.4115</b>	<b>1,692.4115</b>	<b>0.5474</b>		<b>1,706.0955</b>

**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	0.0529	0.0327	0.4962	1.2400e-003	0.1277	7.2000e-004	0.1285	0.0339	6.6000e-004	0.0345		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0529</b>	<b>0.0327</b>	<b>0.4962</b>	<b>1.2400e-003</b>	<b>0.1277</b>	<b>7.2000e-004</b>	<b>0.1285</b>	<b>0.0339</b>	<b>6.6000e-004</b>	<b>0.0345</b>		<b>125.0991</b>	<b>125.0991</b>	<b>3.1300e-003</b>	<b>3.0500e-003</b>	<b>126.0864</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**3.2 Site Preparation - 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					4.1047	0.0000	4.1047	2.2387	0.0000	2.2387			0.0000			0.0000
Off-Road	1.5027	15.7039	8.7299	0.0175		0.7612	0.7612		0.7003	0.7003	0.0000	1,692.4115	1,692.4115	0.5474		1,706.0955
<b>Total</b>	<b>1.5027</b>	<b>15.7039</b>	<b>8.7299</b>	<b>0.0175</b>	<b>4.1047</b>	<b>0.7612</b>	<b>4.8659</b>	<b>2.2387</b>	<b>0.7003</b>	<b>2.9390</b>	<b>0.0000</b>	<b>1,692.4115</b>	<b>1,692.4115</b>	<b>0.5474</b>		<b>1,706.0955</b>

**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	0.0529	0.0327	0.4962	1.2400e-003	0.1000	7.2000e-004	0.1007	0.0271	6.6000e-004	0.0277		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0529</b>	<b>0.0327</b>	<b>0.4962</b>	<b>1.2400e-003</b>	<b>0.1000</b>	<b>7.2000e-004</b>	<b>0.1007</b>	<b>0.0271</b>	<b>6.6000e-004</b>	<b>0.0277</b>		<b>125.0991</b>	<b>125.0991</b>	<b>3.1300e-003</b>	<b>3.0500e-003</b>	<b>126.0864</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**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	lb/day										lb/day					
Fugitive Dust					6.0823	0.0000	6.0823	3.3169	0.0000	3.3169			0.0000			0.0000
Off-Road	2.2337	24.2115	15.5787	0.0348		1.0225	1.0225		0.9407	0.9407		3,372.2889	3,372.2889	1.0907		3,399.5556
<b>Total</b>	<b>2.2337</b>	<b>24.2115</b>	<b>15.5787</b>	<b>0.0348</b>	<b>6.0823</b>	<b>1.0225</b>	<b>7.1048</b>	<b>3.3169</b>	<b>0.9407</b>	<b>4.2575</b>		<b>3,372.2889</b>	<b>3,372.2889</b>	<b>1.0907</b>		<b>3,399.5556</b>

**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	0.0121	0.4871	0.0948	1.9400e-003	0.0549	4.9200e-003	0.0598	0.0151	4.7100e-003	0.0198		204.8674	204.8674	5.6000e-004	0.0322	214.4772
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	0.0529	0.0327	0.4962	1.2400e-003	0.1277	7.2000e-004	0.1285	0.0339	6.6000e-004	0.0345		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0651</b>	<b>0.5198</b>	<b>0.5910</b>	<b>3.1800e-003</b>	<b>0.1826</b>	<b>5.6400e-003</b>	<b>0.1883</b>	<b>0.0489</b>	<b>5.3700e-003</b>	<b>0.0543</b>		<b>329.9665</b>	<b>329.9665</b>	<b>3.6900e-003</b>	<b>0.0353</b>	<b>340.5635</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**3.3 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					2.7371	0.0000	2.7371	1.4926	0.0000	1.4926			0.0000			0.0000
Off-Road	2.2337	24.2115	15.5787	0.0348		1.0225	1.0225		0.9407	0.9407	0.0000	3,372.2889	3,372.2889	1.0907		3,399.5556
<b>Total</b>	<b>2.2337</b>	<b>24.2115</b>	<b>15.5787</b>	<b>0.0348</b>	<b>2.7371</b>	<b>1.0225</b>	<b>3.7595</b>	<b>1.4926</b>	<b>0.9407</b>	<b>2.4333</b>	<b>0.0000</b>	<b>3,372.2889</b>	<b>3,372.2889</b>	<b>1.0907</b>		<b>3,399.5556</b>

**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	0.0121	0.4871	0.0948	1.9400e-003	0.0446	4.9200e-003	0.0495	0.0125	4.7100e-003	0.0172		204.8674	204.8674	5.6000e-004	0.0322	214.4772
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	0.0529	0.0327	0.4962	1.2400e-003	0.1000	7.2000e-004	0.1007	0.0271	6.6000e-004	0.0277		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0651</b>	<b>0.5198</b>	<b>0.5910</b>	<b>3.1800e-003</b>	<b>0.1445</b>	<b>5.6400e-003</b>	<b>0.1502</b>	<b>0.0396</b>	<b>5.3700e-003</b>	<b>0.0450</b>		<b>329.9665</b>	<b>329.9665</b>	<b>3.6900e-003</b>	<b>0.0353</b>	<b>340.5635</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**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	lb/day										lb/day					
Off-Road	1.2759	11.6784	12.0141	0.0206		0.5877	0.5877		0.5562	0.5562		1,946.9800	1,946.9800	0.4261		1,957.6321
<b>Total</b>	<b>1.2759</b>	<b>11.6784</b>	<b>12.0141</b>	<b>0.0206</b>		<b>0.5877</b>	<b>0.5877</b>		<b>0.5562</b>	<b>0.5562</b>		<b>1,946.9800</b>	<b>1,946.9800</b>	<b>0.4261</b>		<b>1,957.6321</b>

**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	0.0114	0.2673	0.0853	9.9000e-004	0.0307	2.8000e-003	0.0335	8.8300e-003	2.6800e-003	0.0115		103.9929	103.9929	5.9000e-004	0.0152	108.5310
Worker	0.0529	0.0327	0.4962	1.2400e-003	0.1277	7.2000e-004	0.1285	0.0339	6.6000e-004	0.0345		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0643</b>	<b>0.3001</b>	<b>0.5815</b>	<b>2.2300e-003</b>	<b>0.1584</b>	<b>3.5200e-003</b>	<b>0.1619</b>	<b>0.0427</b>	<b>3.3400e-003</b>	<b>0.0460</b>		<b>229.0920</b>	<b>229.0920</b>	<b>3.7200e-003</b>	<b>0.0182</b>	<b>234.6173</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**3.4 Building 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					
Off-Road	1.2759	11.6784	12.0141	0.0206		0.5877	0.5877		0.5562	0.5562	0.0000	1,946.9800	1,946.9800	0.4261		1,957.6321
<b>Total</b>	<b>1.2759</b>	<b>11.6784</b>	<b>12.0141</b>	<b>0.0206</b>		<b>0.5877</b>	<b>0.5877</b>		<b>0.5562</b>	<b>0.5562</b>	<b>0.0000</b>	<b>1,946.9800</b>	<b>1,946.9800</b>	<b>0.4261</b>		<b>1,957.6321</b>

**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	0.0114	0.2673	0.0853	9.9000e-004	0.0252	2.8000e-003	0.0280	7.4900e-003	2.6800e-003	0.0102		103.9929	103.9929	5.9000e-004	0.0152	108.5310
Worker	0.0529	0.0327	0.4962	1.2400e-003	0.1000	7.2000e-004	0.1007	0.0271	6.6000e-004	0.0277		125.0991	125.0991	3.1300e-003	3.0500e-003	126.0864
<b>Total</b>	<b>0.0643</b>	<b>0.3001</b>	<b>0.5815</b>	<b>2.2300e-003</b>	<b>0.1252</b>	<b>3.5200e-003</b>	<b>0.1287</b>	<b>0.0346</b>	<b>3.3400e-003</b>	<b>0.0379</b>		<b>229.0920</b>	<b>229.0920</b>	<b>3.7200e-003</b>	<b>0.0182</b>	<b>234.6173</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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	0.0201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5715</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>		<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**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	0.0318	0.0196	0.2977	7.4000e-004	0.0766	4.3000e-004	0.0771	0.0203	4.0000e-004	0.0207		75.0595	75.0595	1.8800e-003	1.8300e-003	75.6518
<b>Total</b>	<b>0.0318</b>	<b>0.0196</b>	<b>0.2977</b>	<b>7.4000e-004</b>	<b>0.0766</b>	<b>4.3000e-004</b>	<b>0.0771</b>	<b>0.0203</b>	<b>4.0000e-004</b>	<b>0.0207</b>		<b>75.0595</b>	<b>75.0595</b>	<b>1.8800e-003</b>	<b>1.8300e-003</b>	<b>75.6518</b>



Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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	0.0201					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5715</b>	<b>5.5624</b>	<b>7.2902</b>	<b>0.0114</b>		<b>0.2840</b>	<b>0.2840</b>		<b>0.2612</b>	<b>0.2612</b>	<b>0.0000</b>	<b>1,103.830 2</b>	<b>1,103.830 2</b>	<b>0.3570</b>		<b>1,112.755 2</b>

**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	0.0318	0.0196	0.2977	7.4000e-004	0.0600	4.3000e-004	0.0604	0.0162	4.0000e-004	0.0166		75.0595	75.0595	1.8800e-003	1.8300e-003	75.6518
<b>Total</b>	<b>0.0318</b>	<b>0.0196</b>	<b>0.2977</b>	<b>7.4000e-004</b>	<b>0.0600</b>	<b>4.3000e-004</b>	<b>0.0604</b>	<b>0.0162</b>	<b>4.0000e-004</b>	<b>0.0166</b>		<b>75.0595</b>	<b>75.0595</b>	<b>1.8800e-003</b>	<b>1.8300e-003</b>	<b>75.6518</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

**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 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					
Archit. Coating	0.8111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>1.0157</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.0212	0.0131	0.1985	5.0000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.6000e-004	0.0138		50.0396	50.0396	1.2500e-003	1.2200e-003	50.4346
<b>Total</b>	<b>0.0212</b>	<b>0.0131</b>	<b>0.1985</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>2.9000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>2.6000e-004</b>	<b>0.0138</b>		<b>50.0396</b>	<b>50.0396</b>	<b>1.2500e-003</b>	<b>1.2200e-003</b>	<b>50.4346</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

**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 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					
Archit. Coating	0.8111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>1.0157</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.0212	0.0131	0.1985	5.0000e-004	0.0400	2.9000e-004	0.0403	0.0108	2.6000e-004	0.0111		50.0396	50.0396	1.2500e-003	1.2200e-003	50.4346
<b>Total</b>	<b>0.0212</b>	<b>0.0131</b>	<b>0.1985</b>	<b>5.0000e-004</b>	<b>0.0400</b>	<b>2.9000e-004</b>	<b>0.0403</b>	<b>0.0108</b>	<b>2.6000e-004</b>	<b>0.0111</b>		<b>50.0396</b>	<b>50.0396</b>	<b>1.2500e-003</b>	<b>1.2200e-003</b>	<b>50.4346</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3471	0.4169	2.4100	4.4500e-003	0.4005	4.8500e-003	0.4054	0.1070	4.5700e-003	0.1116		453.2309	453.2309	0.0284	0.0254	461.5098
Unmitigated	0.3471	0.4169	2.4100	4.4500e-003	0.4005	4.8500e-003	0.4054	0.1070	4.5700e-003	0.1116		453.2309	453.2309	0.0284	0.0254	461.5098

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	27.30	68.60	76.65	99,265	99,265
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>27.30</b>	<b>68.60</b>	<b>76.65</b>	<b>99,265</b>	<b>99,265</b>

**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
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.482564	0.053089	0.187461	0.145748	0.045439	0.009405	0.009312	0.022576	0.000645	0.000157	0.035846	0.001434	0.006323
Other Asphalt Surfaces	0.482564	0.053089	0.187461	0.145748	0.045439	0.009405	0.009312	0.022576	0.000645	0.000157	0.035846	0.001434	0.006323
Other Non-Asphalt Surfaces	0.482564	0.053089	0.187461	0.145748	0.045439	0.009405	0.009312	0.022576	0.000645	0.000157	0.035846	0.001434	0.006323

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Percent of Electricity Use Generated with Renewable 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

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**5.2 Energy by Land Use - NaturalGas**

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					
City Park	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
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0401	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.8100e-003	7.8100e-003	2.0000e-005		8.3200e-003
Unmitigated	0.0401	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.8100e-003	7.8100e-003	2.0000e-005		8.3200e-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	6.6700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.8100e-003	7.8100e-003	2.0000e-005		8.3200e-003
<b>Total</b>	<b>0.0401</b>	<b>3.0000e-005</b>	<b>3.6400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.8100e-003</b>	<b>7.8100e-003</b>	<b>2.0000e-005</b>		<b>8.3200e-003</b>



Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.6700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.8100e-003	7.8100e-003	2.0000e-005	8.3200e-003
<b>Total</b>	<b>0.0401</b>	<b>3.0000e-005</b>	<b>3.6400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>7.8100e-003</b>	<b>7.8100e-003</b>	<b>2.0000e-005</b>	<b>8.3200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

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

**Two Rivers Park Project: Phase 2  
Shasta County AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.23	Acre	0.23	10,018.80	0
Other Non-Asphalt Surfaces	0.46	Acre	0.46	20,037.60	0
City Park	35.00	Acre	35.00	1,050.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	82
<b>Climate Zone</b>	3	<b>Operational Year</b>	2024		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Square footage and acres based on project plans. 450 SF public restroom; 900 SF pavillion over a picnic area. Asphalt-new access road and paving of existing trail.

Construction Phase - Construction schedule based on projecty characteristics.

Trips and VMT - There is no demolition phase for the project.

Grading - Grading information based on project engineer information

Architectural Coating - Architectural coatings - paint for the structures.

Water And Wastewater - There is no irrigation system for the park. Indoor water use is attributed to the restroom - estimated at 50 gallons per day. Water for water fountain would be minimal.

Energy Mitigation - Renewable energy generated based on project engineer information

Off-road Equipment - Construction equipment based on project characteristics.

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

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

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment -

Area Coating - No paint used in new parking area.

Construction Off-road Equipment Mitigation - Per adopted Mitigation Measures

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Parking	1803	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	740.00	30.00
tblConstructionPhase	NumDays	55.00	30.00
tblConstructionPhase	NumDays	55.00	30.00
tblConstructionPhase	PhaseEndDate	8/19/2022	6/10/2022
tblConstructionPhase	PhaseEndDate	12/2/2022	7/22/2022
tblConstructionPhase	PhaseEndDate	10/3/2025	9/2/2022
tblConstructionPhase	PhaseEndDate	12/19/2025	10/14/2022
tblConstructionPhase	PhaseEndDate	3/6/2026	11/25/2022
tblConstructionPhase	PhaseStartDate	7/9/2022	5/2/2022
tblConstructionPhase	PhaseStartDate	8/20/2022	6/13/2022
tblConstructionPhase	PhaseStartDate	12/3/2022	7/25/2022
tblConstructionPhase	PhaseStartDate	10/4/2025	9/5/2022
tblConstructionPhase	PhaseStartDate	12/20/2025	10/17/2022
tblGrading	AcresOfGrading	52.50	1.60
tblGrading	AcresOfGrading	22.50	2.50

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

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

tblGrading	MaterialImported	0.00	750.00
tblLandUse	LandUseSquareFeet	1,524,600.00	1,050.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblWater	IndoorWaterUseRate	0.00	18,250.00
tblWater	OutdoorWaterUseRate	41,701,847.24	0.00

**2.0 Emissions Summary**



Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

**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	5-1-2022	7-31-2022	0.6665	0.6665
2	8-1-2022	9-30-2022	0.2144	0.2144
		Highest	0.6665	0.6665

**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	7.2900e-003	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-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	0.0259	0.0426	0.2133	4.0000e-004	0.0364	4.6000e-004	0.0369	9.7700e-003	4.4000e-004	0.0102	0.0000	36.6763	36.6763	2.6100e-003	2.2700e-003	37.4178
Waste						0.0000	0.0000		0.0000	0.0000	0.6110	0.0000	0.6110	0.0361	0.0000	1.5137
Water						0.0000	0.0000		0.0000	0.0000	5.7900e-003	9.1400e-003	0.0149	6.0000e-004	1.0000e-005	0.0341
<b>Total</b>	<b>0.0332</b>	<b>0.0426</b>	<b>0.2136</b>	<b>4.0000e-004</b>	<b>0.0364</b>	<b>4.6000e-004</b>	<b>0.0369</b>	<b>9.7700e-003</b>	<b>4.4000e-004</b>	<b>0.0102</b>	<b>0.6168</b>	<b>36.6861</b>	<b>37.3029</b>	<b>0.0393</b>	<b>2.2800e-003</b>	<b>38.9663</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

**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	7.2900e-003	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-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	0.0259	0.0426	0.2133	4.0000e-004	0.0364	4.6000e-004	0.0369	9.7700e-003	4.4000e-004	0.0102	0.0000	36.6763	36.6763	2.6100e-003	2.2700e-003	37.4178
Waste						0.0000	0.0000		0.0000	0.0000	0.6110	0.0000	0.6110	0.0361	0.0000	1.5137
Water						0.0000	0.0000		0.0000	0.0000	5.7900e-003	9.1400e-003	0.0149	6.0000e-004	1.0000e-005	0.0341
<b>Total</b>	<b>0.0332</b>	<b>0.0426</b>	<b>0.2136</b>	<b>4.0000e-004</b>	<b>0.0364</b>	<b>4.6000e-004</b>	<b>0.0369</b>	<b>9.7700e-003</b>	<b>4.4000e-004</b>	<b>0.0102</b>	<b>0.6168</b>	<b>36.6861</b>	<b>37.3029</b>	<b>0.0393</b>	<b>2.2800e-003</b>	<b>38.9663</b>

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

**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	5/2/2022	6/10/2022	5	30	
2	Grading	Grading	6/13/2022	7/22/2022	5	30	
3	Building Construction	Building Construction	7/25/2022	9/2/2022	5	30	



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

4	Paving	Paving	9/5/2022	10/14/2022	5	30
5	Architectural Coating	Architectural Coating	10/17/2022	11/25/2022	5	30

**Acres of Grading (Site Preparation Phase): 2.5**

**Acres of Grading (Grading Phase): 1.6**

**Acres of Paving: 0.69**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,575; Non-Residential Outdoor: 525; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	6.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	94.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	10.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1368	0.0000	0.1368	0.0746	0.0000	0.0746	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2356	0.1310	2.6000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	23.0300	23.0300	7.4500e-003	0.0000	23.2162
<b>Total</b>	<b>0.0225</b>	<b>0.2356</b>	<b>0.1310</b>	<b>2.6000e-004</b>	<b>0.1368</b>	<b>0.0114</b>	<b>0.1482</b>	<b>0.0746</b>	<b>0.0105</b>	<b>0.0851</b>	<b>0.0000</b>	<b>23.0300</b>	<b>23.0300</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>23.2162</b>

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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 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	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>6.7000e-004</b>	<b>5.3000e-004</b>	<b>6.0400e-003</b>	<b>2.0000e-005</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>1.8300e-003</b>	<b>4.9000e-004</b>	<b>1.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.5393</b>	<b>1.5393</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5533</b>

**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					0.0616	0.0000	0.0616	0.0336	0.0000	0.0336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2356	0.1310	2.6000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	23.0299	23.0299	7.4500e-003	0.0000	23.2161
<b>Total</b>	<b>0.0225</b>	<b>0.2356</b>	<b>0.1310</b>	<b>2.6000e-004</b>	<b>0.0616</b>	<b>0.0114</b>	<b>0.0730</b>	<b>0.0336</b>	<b>0.0105</b>	<b>0.0441</b>	<b>0.0000</b>	<b>23.0299</b>	<b>23.0299</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>23.2161</b>

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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 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	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>6.7000e-004</b>	<b>5.3000e-004</b>	<b>6.0400e-003</b>	<b>2.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.5393</b>	<b>1.5393</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.5533</b>

**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					0.0912	0.0000	0.0912	0.0498	0.0000	0.0498	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0335	0.3632	0.2337	5.2000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	45.8893	45.8893	0.0148	0.0000	46.2604
<b>Total</b>	<b>0.0335</b>	<b>0.3632</b>	<b>0.2337</b>	<b>5.2000e-004</b>	<b>0.0912</b>	<b>0.0153</b>	<b>0.1066</b>	<b>0.0498</b>	<b>0.0141</b>	<b>0.0639</b>	<b>0.0000</b>	<b>45.8893</b>	<b>45.8893</b>	<b>0.0148</b>	<b>0.0000</b>	<b>46.2604</b>

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

**3.3 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	1.8000e-004	7.6900e-003	1.4400e-003	3.0000e-005	7.9000e-004	7.0000e-005	8.6000e-004	2.2000e-004	7.0000e-005	2.9000e-004	0.0000	2.7887	2.7887	1.0000e-005	4.4000e-004	2.9195
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	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>8.5000e-004</b>	<b>8.2200e-003</b>	<b>7.4800e-003</b>	<b>5.0000e-005</b>	<b>2.6100e-003</b>	<b>8.0000e-005</b>	<b>2.6900e-003</b>	<b>7.1000e-004</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.3280</b>	<b>4.3280</b>	<b>5.0000e-005</b>	<b>4.8000e-004</b>	<b>4.4728</b>

**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					0.0411	0.0000	0.0411	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0335	0.3632	0.2337	5.2000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	45.8893	45.8893	0.0148	0.0000	46.2603
<b>Total</b>	<b>0.0335</b>	<b>0.3632</b>	<b>0.2337</b>	<b>5.2000e-004</b>	<b>0.0411</b>	<b>0.0153</b>	<b>0.0564</b>	<b>0.0224</b>	<b>0.0141</b>	<b>0.0365</b>	<b>0.0000</b>	<b>45.8893</b>	<b>45.8893</b>	<b>0.0148</b>	<b>0.0000</b>	<b>46.2603</b>

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

**3.3 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	1.8000e-004	7.6900e-003	1.4400e-003	3.0000e-005	6.4000e-004	7.0000e-005	7.2000e-004	1.8000e-004	7.0000e-005	2.5000e-004	0.0000	2.7887	2.7887	1.0000e-005	4.4000e-004	2.9195
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	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>8.5000e-004</b>	<b>8.2200e-003</b>	<b>7.4800e-003</b>	<b>5.0000e-005</b>	<b>2.0700e-003</b>	<b>8.0000e-005</b>	<b>2.1600e-003</b>	<b>5.7000e-004</b>	<b>8.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>4.3280</b>	<b>4.3280</b>	<b>5.0000e-005</b>	<b>4.8000e-004</b>	<b>4.4728</b>

**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	0.0191	0.1752	0.1802	3.1000e-004		8.8100e-003	8.8100e-003		8.3400e-003	8.3400e-003	0.0000	26.4941	26.4941	5.8000e-003	0.0000	26.6390
<b>Total</b>	<b>0.0191</b>	<b>0.1752</b>	<b>0.1802</b>	<b>3.1000e-004</b>		<b>8.8100e-003</b>	<b>8.8100e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>26.4941</b>	<b>26.4941</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>26.6390</b>

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

**3.4 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	1.7000e-004	4.2100e-003	1.3000e-003	1.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.3000e-004	4.0000e-005	1.7000e-004	0.0000	1.4158	1.4158	1.0000e-005	2.1000e-004	1.4776
Worker	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>8.4000e-004</b>	<b>4.7400e-003</b>	<b>7.3400e-003</b>	<b>3.0000e-005</b>	<b>2.2600e-003</b>	<b>5.0000e-005</b>	<b>2.3100e-003</b>	<b>6.2000e-004</b>	<b>5.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.9551</b>	<b>2.9551</b>	<b>5.0000e-005</b>	<b>2.5000e-004</b>	<b>3.0309</b>

**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	0.0191	0.1752	0.1802	3.1000e-004		8.8100e-003	8.8100e-003		8.3400e-003	8.3400e-003	0.0000	26.4940	26.4940	5.8000e-003	0.0000	26.6390
<b>Total</b>	<b>0.0191</b>	<b>0.1752</b>	<b>0.1802</b>	<b>3.1000e-004</b>		<b>8.8100e-003</b>	<b>8.8100e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>26.4940</b>	<b>26.4940</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>26.6390</b>

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

**3.4 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	1.7000e-004	4.2100e-003	1.3000e-003	1.0000e-005	3.6000e-004	4.0000e-005	4.1000e-004	1.1000e-004	4.0000e-005	1.5000e-004	0.0000	1.4158	1.4158	1.0000e-005	2.1000e-004	1.4776
Worker	6.7000e-004	5.3000e-004	6.0400e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.5393	1.5393	4.0000e-005	4.0000e-005	1.5533
<b>Total</b>	<b>8.4000e-004</b>	<b>4.7400e-003</b>	<b>7.3400e-003</b>	<b>3.0000e-005</b>	<b>1.7900e-003</b>	<b>5.0000e-005</b>	<b>1.8500e-003</b>	<b>5.0000e-004</b>	<b>5.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.9551</b>	<b>2.9551</b>	<b>5.0000e-005</b>	<b>2.5000e-004</b>	<b>3.0309</b>

**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	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.5700e-003</b>	<b>0.0834</b>	<b>0.1094</b>	<b>1.7000e-004</b>		<b>4.2600e-003</b>	<b>4.2600e-003</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>15.0207</b>	<b>15.0207</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>15.1421</b>



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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	4.0000e-004	3.2000e-004	3.6200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9236	0.9236	3.0000e-005	3.0000e-005	0.9320
<b>Total</b>	<b>4.0000e-004</b>	<b>3.2000e-004</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9236</b>	<b>0.9236</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9320</b>

**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	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	3.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.5700e-003</b>	<b>0.0834</b>	<b>0.1094</b>	<b>1.7000e-004</b>		<b>4.2600e-003</b>	<b>4.2600e-003</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>15.0207</b>	<b>15.0207</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>15.1421</b>

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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**

**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-004	3.2000e-004	3.6200e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.9236	0.9236	3.0000e-005	3.0000e-005	0.9320
<b>Total</b>	<b>4.0000e-004</b>	<b>3.2000e-004</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.9236</b>	<b>0.9236</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9320</b>

**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	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.0152</b>	<b>0.0211</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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**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	2.7000e-004	2.1000e-004	2.4200e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6157	0.6157	2.0000e-005	2.0000e-005	0.6213
<b>Total</b>	<b>2.7000e-004</b>	<b>2.1000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6157</b>	<b>0.6157</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6213</b>

**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	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.0152</b>	<b>0.0211</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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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
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	2.7000e-004	2.1000e-004	2.4200e-003	1.0000e-005	5.7000e-004	0.0000	5.8000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.6157	0.6157	2.0000e-005	2.0000e-005	0.6213
<b>Total</b>	<b>2.7000e-004</b>	<b>2.1000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>5.8000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.6157</b>	<b>0.6157</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6213</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

**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	0.0259	0.0426	0.2133	4.0000e-004	0.0364	4.6000e-004	0.0369	9.7700e-003	4.4000e-004	0.0102	0.0000	36.6763	36.6763	2.6100e-003	2.2700e-003	37.4178
Unmitigated	0.0259	0.0426	0.2133	4.0000e-004	0.0364	4.6000e-004	0.0369	9.7700e-003	4.4000e-004	0.0102	0.0000	36.6763	36.6763	2.6100e-003	2.2700e-003	37.4178

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	27.30	68.60	76.65	99,265	99,265
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>27.30</b>	<b>68.60</b>	<b>76.65</b>	<b>99,265</b>	<b>99,265</b>

**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
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.482564	0.053089	0.187461	0.145748	0.045439	0.009405	0.009312	0.022576	0.000645	0.000157	0.035846	0.001434	0.006323
Other Asphalt Surfaces	0.482564	0.053089	0.187461	0.145748	0.045439	0.009405	0.009312	0.022576	0.000645	0.000157	0.035846	0.001434	0.006323









Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

**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	7.2900e-003	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-004
Unmitigated	7.2900e-003	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-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	1.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-004
<b>Total</b>	<b>7.2900e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.8000e-004</b>

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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	1.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.4000e-004	6.4000e-004	0.0000	0.0000	6.8000e-004
<b>Total</b>	<b>7.2900e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.8000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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	0.0149	6.0000e-004	1.0000e-005	0.0341
Unmitigated	0.0149	6.0000e-004	1.0000e-005	0.0341

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0.01825 / 0	0.0149	6.0000e-004	1.0000e-005	0.0341
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0149</b>	<b>6.0000e-004</b>	<b>1.0000e-005</b>	<b>0.0341</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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			
City Park	0.01825 / 0	0.0149	6.0000e-004	1.0000e-005	0.0341
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0149</b>	<b>6.0000e-004</b>	<b>1.0000e-005</b>	<b>0.0341</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.6110	0.0361	0.0000	1.5137
Unmitigated	0.6110	0.0361	0.0000	1.5137

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.01	0.6110	0.0361	0.0000	1.5137
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6110</b>	<b>0.0361</b>	<b>0.0000</b>	<b>1.5137</b>

Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, 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**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.01	0.6110	0.0361	0.0000	1.5137
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6110</b>	<b>0.0361</b>	<b>0.0000</b>	<b>1.5137</b>

**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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Two Rivers Park Project: Phase 2 - Shasta County AQMD Air District, Annual

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

**11.0 Vegetation**

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