

A P P E N D I X 4.2-1

Air Quality Modeling

River Crossing Marketplace - Shasta County, Summer

River Crossing Marketplace
Shasta County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	118.80	1000sqft	3.57	118,800.00	0
Parking Lot	463.40	1000sqft	13.92	463,400.00	0
Fast Food Restaurant with Drive Thru	6.80	1000sqft	0.21	6,800.00	0
Discount Club	152.20	1000sqft	4.57	152,200.00	0
Gasoline/Service Station	30.00	Pump	0.25	4,235.25	0
Strip Mall	63.30	1000sqft	1.90	63,300.00	0
Other Asphalt Surfaces	28.00	1000sqft	0.84	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	220	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

River Crossing Marketplace - Shasta County, Summer

Project Characteristics - 2020 PGE CO2 Intensity Factor [Project is just outside Redding Electric Utility service area]

Land Use - Land uses account for Costco store, retail commercial building space, fast food restaurant, gas station, parking, internal circulation, and landscaping

Construction Phase - Construction phase duration provided by Project Applicant. Vegetation removal is achieved during the site preparation phase while off-site debris hauling spans both site preparation and grading

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment and equipment hours provided by Project Applicant.

Off-road Equipment - Equipment and equipment hours per Project Applicant

Off-road Equipment - Equipment and equipment hours provided by Project Applicant.

Trips and VMT - Vendor and haul trips derived from PlaceWorks. Tree hauling from vegetation removal = 1,000 haul trips.

Grading -

Architectural Coating - No parking lot for off site.

Vehicle Trips - Trip rates adjusted per TIA.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Land Use Change -

Construction Off-road Equipment Mitigation - Per Redding General Plan Policy 29. Tier 3 & 4 engines are a Project design feature proposed by the Applicant

Mobile Commute Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

River Crossing Marketplace - Shasta County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	152.00
tblConstructionPhase	NumDays	440.00	152.00
tblConstructionPhase	NumDays	45.00	77.00
tblConstructionPhase	NumDays	35.00	152.00
tblConstructionPhase	NumDays	20.00	10.00
tblLandUse	LotAcreage	2.73	3.57

River Crossing Marketplace - Shasta County, Summer

tblLandUse	LotAcreage	10.64	13.92
tblLandUse	LotAcreage	0.16	0.21
tblLandUse	LotAcreage	3.49	4.57
tblLandUse	LotAcreage	0.10	0.25
tblLandUse	LotAcreage	1.45	1.90
tblLandUse	LotAcreage	0.64	0.84
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	4.70
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.40
tblOffRoadEquipment	UsageHours	8.00	2.20
tblOffRoadEquipment	UsageHours	8.00	8.60
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	CO2IntensityFactor	641.35	220
tblTripsAndVMT	HaulingTripLength	20.00	12.50
tblTripsAndVMT	HaulingTripLength	20.00	15.40

River Crossing Marketplace - Shasta County, Summer

tblTripsAndVMT	HaulingTripNumber	0.00	115.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,435.00
tblTripsAndVMT	HaulingTripNumber	0.00	420.00
tblTripsAndVMT	HaulingTripNumber	0.00	350.00
tblTripsAndVMT	VendorTripNumber	133.00	198.00
tblTripsAndVMT	WorkerTripNumber	318.00	485.00
tblTripsAndVMT	WorkerTripNumber	64.00	97.00
tblVehicleTrips	ST_TR	53.75	34.49
tblVehicleTrips	ST_TR	722.03	253.08
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	42.04	34.63
tblVehicleTrips	SU_TR	33.67	34.49
tblVehicleTrips	SU_TR	542.72	253.08
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	20.43	34.63
tblVehicleTrips	WD_TR	41.80	34.49
tblVehicleTrips	WD_TR	496.12	253.08
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	44.32	34.63

2.0 Emissions Summary

River Crossing Marketplace - Shasta County, Summer

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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Energy	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
Mobile	25.7788	151.0906	172.2945	0.5434	28.0547	0.6317	28.6865	7.5258	0.5977	8.1235		55,362.6025	55,362.6025	4.9572		55,486.5331
Total	32.5134	152.1188	173.2462	0.5496	28.0547	0.7101	28.7649	7.5258	0.6761	8.2019		56,595.6988	56,595.6988	4.9814	0.0226	56,726.9686

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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Energy	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
Mobile	25.7788	151.0906	172.2945	0.5434	28.0547	0.6317	28.6865	7.5258	0.5977	8.1235		55,362.6025	55,362.6025	4.9572		55,486.5331
Total	32.5134	152.1188	173.2462	0.5496	28.0547	0.7101	28.7649	7.5258	0.6761	8.2019		56,595.6988	56,595.6988	4.9814	0.0226	56,726.9686

River Crossing Marketplace - Shasta County, Summer

	ROG	NOx	CO	SO2	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	6/1/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	10/1/2019	5	77	
3	Building Construction	Building Construction	10/2/2019	4/30/2020	5	152	
4	Paving	Paving	10/2/2019	4/30/2020	5	152	
5	Architectural Coating	Architectural Coating	10/2/2019	4/30/2020	5	152	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 131.38

Acres of Paving: 18.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 339,803; Non-Residential Outdoor: 113,268; Striped Parking Area: 34,932 (Architectural Coating – sqft)

OffRoad Equipment

River Crossing Marketplace - Shasta County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	2	8.80	158	0.38
Site Preparation	Rollers	1	0.80	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Grading	Excavators	3	2.30	158	0.38
Grading	Graders	3	4.70	187	0.41
Grading	Rollers	4	7.30	80	0.38
Grading	Rubber Tired Dozers	1	0.40	247	0.40
Grading	Scrapers	3	2.20	367	0.48
Grading	Tractors/Loaders/Backhoes	5	8.60	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	0.90	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	2	0.20	80	0.38
Paving	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

River Crossing Marketplace - Shasta County, Summer

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	5	13.00	0.00	115.00	10.80	7.30	12.50	LD_Mix	HDT_Mix	HHDT
Grading	19	48.00	0.00	1,435.00	10.80	7.30	15.40	LD_Mix	HDT_Mix	HHDT
Building Construction	9	485.00	198.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	420.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	97.00	0.00	350.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8756	8.9291	10.1330	0.0154		0.4865	0.4865		0.4476	0.4476		1,519.4949	1,519.4949	0.4808		1,531.5137
Total	0.8756	8.9291	10.1330	0.0154	0.0000	0.4865	0.4865	0.0000	0.4476	0.4476		1,519.4949	1,519.4949	0.4808		1,531.5137

River Crossing Marketplace - Shasta County, Summer

3.2 Site Preparation - 2019

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	0.0742	2.6193	0.3354	6.5600e-003	0.1260	0.0110	0.1370	0.0346	0.0106	0.0451		687.4553	687.4553	0.0540		688.8051
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		119.5053	119.5053	4.8100e-003		119.6256
Total	0.1473	2.6656	0.8954	7.7600e-003	0.2328	0.0118	0.2446	0.0629	0.0113	0.0742		806.9606	806.9606	0.0588		808.4307

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4305	3.6965	11.0379	0.0154		0.1844	0.1844		0.1709	0.1709	0.0000	1,519.4949	1,519.4949	0.4808		1,531.5137
Total	0.4305	3.6965	11.0379	0.0154	0.0000	0.1844	0.1844	0.0000	0.1709	0.1709	0.0000	1,519.4949	1,519.4949	0.4808		1,531.5137

River Crossing Marketplace - Shasta County, Summer

3.2 Site Preparation - 2019

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	0.0742	2.6193	0.3354	6.5600e-003	0.0880	0.0110	0.0990	0.0252	0.0106	0.0358		687.4553	687.4553	0.0540		688.8051
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		119.5053	119.5053	4.8100e-003		119.6256
Total	0.1473	2.6656	0.8954	7.7600e-003	0.1576	0.0118	0.1694	0.0444	0.0113	0.0557		806.9606	806.9606	0.0588		808.4307

3.3 Grading - 2019

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					2.1106	0.0000	2.1106	0.3609	0.0000	0.3609			0.0000			0.0000
Off-Road	4.0965	45.9099	32.2574	0.0553		2.3071	2.3071		2.1225	2.1225		5,480.4153	5,480.4153	1.7340		5,523.7639
Total	4.0965	45.9099	32.2574	0.0553	2.1106	2.3071	4.4176	0.3609	2.1225	2.4834		5,480.4153	5,480.4153	1.7340		5,523.7639

River Crossing Marketplace - Shasta County, Summer

3.3 Grading - 2019

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	0.1377	4.7453	0.6288	0.0125	0.2514	0.0215	0.2729	0.0690	0.0206	0.0895		1,305.5306	1,305.5306	0.0884		1,307.7395
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
Worker	0.2698	0.1710	2.0677	4.4400e-003	0.3943	2.9100e-003	0.3972	0.1046	2.6800e-003	0.1073		441.2503	441.2503	0.0178		441.6944
Total	0.4076	4.9163	2.6965	0.0169	0.6457	0.0244	0.6701	0.1735	0.0233	0.1968		1,746.7809	1,746.7809	0.1061		1,749.4339

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8073	0.0000	0.8073	0.1380	0.0000	0.1380			0.0000			0.0000
Off-Road	1.1460	8.1905	33.9557	0.0553		0.4377	0.4377		0.4089	0.4089	0.0000	5,480.4152	5,480.4152	1.7340		5,523.7639
Total	1.1460	8.1905	33.9557	0.0553	0.8073	0.4377	1.2450	0.1380	0.4089	0.5469	0.0000	5,480.4152	5,480.4152	1.7340		5,523.7639

River Crossing Marketplace - Shasta County, Summer

3.3 Grading - 2019

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	0.1377	4.7453	0.6288	0.0125	0.1755	0.0215	0.1970	0.0503	0.0206	0.0709		1,305.5306	1,305.5306	0.0884		1,307.7395
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
Worker	0.2698	0.1710	2.0677	4.4400e-003	0.2572	2.9100e-003	0.2601	0.0709	2.6800e-003	0.0736		441.2503	441.2503	0.0178		441.6944
Total	0.4076	4.9163	2.6965	0.0169	0.4328	0.0244	0.4572	0.1213	0.0233	0.1445		1,746.7809	1,746.7809	0.1061		1,749.4339

3.4 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

River Crossing Marketplace - Shasta County, Summer

3.4 Building Construction - 2019

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
Vendor	1.0542	26.1652	5.7733	0.0586	1.3419	0.2080	1.5498	0.3864	0.1990	0.5853		6,123.6206	6,123.6206	0.5058		6,136.2649
Worker	2.7264	1.7278	20.8927	0.0449	3.9842	0.0294	4.0136	1.0568	0.0271	1.0839		4,458.4665	4,458.4665	0.1795		4,462.9534
Total	3.7805	27.8930	26.6660	0.1035	5.3260	0.2374	5.5634	1.4432	0.2261	1.6692		10,582.0871	10,582.0871	0.6853		10,599.2183

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	0.6516	8.9834	17.8448	0.0269		0.5071	0.5071		0.4979	0.4979	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6516	8.9834	17.8448	0.0269		0.5071	0.5071		0.4979	0.4979	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

River Crossing Marketplace - Shasta County, Summer

3.4 Building Construction - 2019

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
Vendor	1.0542	26.1652	5.7733	0.0586	0.9597	0.2080	1.1676	0.2926	0.1990	0.4915		6,123.6206	6,123.6206	0.5058		6,136.2649
Worker	2.7264	1.7278	20.8927	0.0449	2.5991	0.0294	2.6285	0.7168	0.0271	0.7439		4,458.4665	4,458.4665	0.1795		4,462.9534
Total	3.7805	27.8930	26.6660	0.1035	3.5588	0.2374	3.7961	1.0094	0.2261	1.2354		10,582.0871	10,582.0871	0.6853		10,599.2183

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

River Crossing Marketplace - Shasta County, Summer

3.4 Building Construction - 2020

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
Vendor	0.8509	23.8728	4.9867	0.0582	1.3419	0.1330	1.4748	0.3864	0.1272	0.5136		6,082.8238	6,082.8238	0.4611		6,094.3522
Worker	2.4378	1.5084	18.3662	0.0434	3.9842	0.0284	4.0125	1.0568	0.0261	1.0829		4,318.0153	4,318.0153	0.1530		4,321.8400
Total	3.2887	25.3812	23.3530	0.1016	5.3260	0.1613	5.4873	1.4432	0.1533	1.5965		10,400.8391	10,400.8391	0.6141		10,416.1922

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	0.6345	8.8127	17.8279	0.0269		0.4902	0.4902		0.4824	0.4824	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6345	8.8127	17.8279	0.0269		0.4902	0.4902		0.4824	0.4824	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

River Crossing Marketplace - Shasta County, Summer

3.4 Building Construction - 2020

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
Vendor	0.8509	23.8728	4.9867	0.0582	0.9597	0.1330	1.0926	0.2926	0.1272	0.4198		6,082.8238	6,082.8238	0.4611			6,094.3522
Worker	2.4378	1.5084	18.3662	0.0434	2.5991	0.0284	2.6275	0.7168	0.0261	0.7430		4,318.0153	4,318.0153	0.1530			4,321.8400
Total	3.2887	25.3812	23.3530	0.1016	3.5588	0.1613	3.7201	1.0094	0.1533	1.1627		10,400.8391	10,400.8391	0.6141			10,416.1922

3.5 Paving - 2019

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	0.1019	1.0479	0.9975	1.4400e-003		0.0636	0.0636		0.0585	0.0585		142.2382	142.2382	0.0450			143.3633
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3563	1.0479	0.9975	1.4400e-003		0.0636	0.0636		0.0585	0.0585		142.2382	142.2382	0.0450			143.3633

River Crossing Marketplace - Shasta County, Summer

3.5 Paving - 2019

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	0.0245	0.8213	0.1133	2.2800e-003	0.0973	4.0400e-003	0.1013	0.0253	3.8700e-003	0.0291		238.5981	238.5981	0.0133		238.9306
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
Worker	0.0562	0.0356	0.4308	9.2000e-004	0.0822	6.1000e-004	0.0828	0.0218	5.6000e-004	0.0224		91.9271	91.9271	3.7000e-003		92.0197
Total	0.0807	0.8569	0.5441	3.2000e-003	0.1794	4.6500e-003	0.1841	0.0471	4.4300e-003	0.0515		330.5252	330.5252	0.0170		330.9503

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	0.0392	0.4673	1.0822	1.4400e-003		0.0253	0.0253		0.0243	0.0243	0.0000	142.2382	142.2382	0.0450		143.3633
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2936	0.4673	1.0822	1.4400e-003		0.0253	0.0253		0.0243	0.0243	0.0000	142.2382	142.2382	0.0450		143.3633

River Crossing Marketplace - Shasta County, Summer

3.5 Paving - 2019

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	0.0245	0.8213	0.1133	2.2800e-003	0.0631	4.0400e-003	0.0672	0.0169	3.8700e-003	0.0208		238.5981	238.5981	0.0133		238.9306
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
Worker	0.0562	0.0356	0.4308	9.2000e-004	0.0536	6.1000e-004	0.0542	0.0148	5.6000e-004	0.0153		91.9271	91.9271	3.7000e-003		92.0197
Total	0.0807	0.8569	0.5441	3.2000e-003	0.1167	4.6500e-003	0.1214	0.0317	4.4300e-003	0.0361		330.5252	330.5252	0.0170		330.9503

3.5 Paving - 2020

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	0.0923	0.9465	0.9907	1.4400e-003		0.0553	0.0553		0.0509	0.0509		139.1136	139.1136	0.0450		140.2384
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3468	0.9465	0.9907	1.4400e-003		0.0553	0.0553		0.0509	0.0509		139.1136	139.1136	0.0450		140.2384

River Crossing Marketplace - Shasta County, Summer

3.5 Paving - 2020

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	0.0217	0.7580	0.1041	2.2500e-003	0.0757	2.9700e-003	0.0787	0.0200	2.8400e-003	0.0228		236.0669	236.0669	0.0123		236.3733
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
Worker	0.0503	0.0311	0.3787	8.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		89.0312	89.0312	3.1500e-003		89.1101
Total	0.0720	0.7891	0.4828	3.1400e-003	0.1578	3.5500e-003	0.1614	0.0418	3.3800e-003	0.0451		325.0981	325.0981	0.0154		325.4834

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	0.0374	0.4499	1.0805	1.4400e-003		0.0235	0.0235		0.0227	0.0227	0.0000	139.1136	139.1136	0.0450		140.2384
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2919	0.4499	1.0805	1.4400e-003		0.0235	0.0235		0.0227	0.0227	0.0000	139.1136	139.1136	0.0450		140.2384

River Crossing Marketplace - Shasta County, Summer

3.5 Paving - 2020

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	0.0217	0.7580	0.1041	2.2500e-003	0.0502	2.9700e-003	0.0531	0.0137	2.8400e-003	0.0165		236.0669	236.0669	0.0123		236.3733
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
Worker	0.0503	0.0311	0.3787	8.9000e-004	0.0536	5.8000e-004	0.0542	0.0148	5.4000e-004	0.0153		89.0312	89.0312	3.1500e-003		89.1101
Total	0.0720	0.7891	0.4828	3.1400e-003	0.1038	3.5500e-003	0.1073	0.0285	3.3800e-003	0.0319		325.0981	325.0981	0.0154		325.4834

3.6 Architectural Coating - 2019

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	37.4686	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

River Crossing Marketplace - Shasta County, Summer

3.6 Architectural Coating - 2019

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	0.0204	0.6844	0.0944	1.9000e-003	0.0811	3.3700e-003	0.0844	0.0211	3.2200e-003	0.0243		198.8317	198.8317	0.0111		199.1089
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
Worker	0.5453	0.3456	4.1785	8.9700e-003	0.7968	5.8800e-003	0.8027	0.2114	5.4200e-003	0.2168		891.6933	891.6933	0.0359		892.5907
Total	0.5657	1.0300	4.2729	0.0109	0.8779	9.2500e-003	0.8872	0.2324	8.6400e-003	0.2411		1,090.5250	1,090.5250	0.0470		1,091.6995

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	37.2616	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

River Crossing Marketplace - Shasta County, Summer

3.6 Architectural Coating - 2019

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	0.0204	0.6844	0.0944	1.9000e-003	0.0526	3.3700e-003	0.0560	0.0141	3.2200e-003	0.0173		198.8317	198.8317	0.0111		199.1089
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
Worker	0.5453	0.3456	4.1785	8.9700e-003	0.5198	5.8800e-003	0.5257	0.1434	5.4200e-003	0.1488		891.6933	891.6933	0.0359		892.5907
Total	0.5657	1.0300	4.2729	0.0109	0.5724	9.2500e-003	0.5817	0.1574	8.6400e-003	0.1661		1,090.5250	1,090.5250	0.0470		1,091.6995

3.6 Architectural Coating - 2020

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	37.4444	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

River Crossing Marketplace - Shasta County, Summer

3.6 Architectural Coating - 2020

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	0.0181	0.6317	0.0867	1.8800e-003	0.0631	2.4700e-003	0.0656	0.0166	2.3700e-003	0.0190		196.7224	196.7224	0.0102		196.9778
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
Worker	0.4876	0.3017	3.6733	8.6800e-003	0.7968	5.6700e-003	0.8025	0.2114	5.2300e-003	0.2166		863.6031	863.6031	0.0306		864.3680
Total	0.5057	0.9334	3.7600	0.0106	0.8599	8.1400e-003	0.8681	0.2280	7.6000e-003	0.2356		1,060.3255	1,060.3255	0.0408		1,061.3458

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	37.2616	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928

River Crossing Marketplace - Shasta County, Summer

3.6 Architectural Coating - 2020

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	0.0181	0.6317	0.0867	1.8800e-003	0.0418	2.4700e-003	0.0443	0.0114	2.3700e-003	0.0138		196.7224	196.7224	0.0102		196.9778
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
Worker	0.4876	0.3017	3.6733	8.6800e-003	0.5198	5.6700e-003	0.5255	0.1434	5.2300e-003	0.1486		863.6031	863.6031	0.0306		864.3680
Total	0.5057	0.9334	3.7600	0.0106	0.5616	8.1400e-003	0.5698	0.1548	7.6000e-003	0.1624		1,060.3255	1,060.3255	0.0408		1,061.3458

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Employee Vanpool/Shuttle

River Crossing Marketplace - Shasta County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	25.7788	151.0906	172.2945	0.5434	28.0547	0.6317	28.6865	7.5258	0.5977	8.1235		55,362.60 25	55,362.60 25	4.9572		55,486.53 31
Unmitigated	25.7788	151.0906	172.2945	0.5434	28.0547	0.6317	28.6865	7.5258	0.5977	8.1235		55,362.60 25	55,362.60 25	4.9572		55,486.53 31

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	5,249.38	5,249.38	5249.38	8,086,528	8,086,528
Fast Food Restaurant with Drive Thru	1,720.94	1,720.94	1720.94	1,607,921	1,607,921
Gasoline/Service Station	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	2,192.08	2,192.08	2192.08	3,375,874	3,375,874
Total	9,162.40	9,162.40	9,162.40	13,070,323	13,070,323

4.3 Trip Type Information

River Crossing Marketplace - Shasta County, Summer

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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Fast Food Restaurant with Drive Thru	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Gasoline/Service Station	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Parking Lot	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Strip Mall	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

River Crossing Marketplace - Shasta County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
NaturalGas Unmitigated	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

River Crossing Marketplace - Shasta County, Summer

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					
Discount Club	4461.75	0.0481	0.4374	0.3674	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.9122	524.9122	0.0101	9.6200e-003	528.0315
Fast Food Restaurant with Drive Thru	3920.15	0.0423	0.3843	0.3228	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.1945	461.1945	8.8400e-003	8.4600e-003	463.9352
Gasoline/Service Station	242.163	2.6100e-003	0.0237	0.0199	1.4000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003		28.4898	28.4898	5.5000e-004	5.2000e-004	28.6591
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
Parking Lot	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
Strip Mall	1855.64	0.0200	0.1819	0.1528	1.0900e-003		0.0138	0.0138		0.0138	0.0138		218.3110	218.3110	4.1800e-003	4.0000e-003	219.6084
Total		0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

River Crossing Marketplace - Shasta County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Discount Club	4.46175	0.0481	0.4374	0.3674	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.9122	524.9122	0.0101	9.6200e-003	528.0315
Fast Food Restaurant with Drive Thru	3.92015	0.0423	0.3843	0.3228	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.1945	461.1945	8.8400e-003	8.4600e-003	463.9352
Gasoline/Service Station	0.242163	2.6100e-003	0.0237	0.0199	1.4000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003		28.4898	28.4898	5.5000e-004	5.2000e-004	28.6591
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
Parking Lot	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
Strip Mall	1.85564	0.0200	0.1819	0.1528	1.0900e-003		0.0138	0.0138		0.0138	0.0138		218.3110	218.3110	4.1800e-003	4.0000e-003	219.6084
Total		0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

6.0 Area Detail

6.1 Mitigation Measures Area

River Crossing Marketplace - Shasta County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Unmitigated	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3400e-003	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Total	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

River Crossing Marketplace - Shasta County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3400e-003	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Total	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

River Crossing Marketplace - Shasta County, Summer

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Crossing Marketplace - Shasta County, Winter

**River Crossing Marketplace
Shasta County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	118.80	1000sqft	3.57	118,800.00	0
Parking Lot	463.40	1000sqft	13.92	463,400.00	0
Fast Food Restaurant with Drive Thru	6.80	1000sqft	0.21	6,800.00	0
Discount Club	152.20	1000sqft	4.57	152,200.00	0
Gasoline/Service Station	30.00	Pump	0.25	4,235.25	0
Strip Mall	63.30	1000sqft	1.90	63,300.00	0
Other Asphalt Surfaces	28.00	1000sqft	0.84	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	220	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

River Crossing Marketplace - Shasta County, Winter

Project Characteristics - 2020 PGE CO2 Intensity Factor [Project is just outside Redding Electric Utility service area]

Land Use - Land uses account for Costco store, retail commercial building space, fast food restaurant, gas station, parking, internal circulation, and landscaping

Construction Phase - Construction phase duration provided by Project Applicant. Vegetation removal is achieved during the site preparation phase while off-site debris hauling spans both site preparation and grading

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment and equipment hours provided by Project Applicant.

Off-road Equipment - Equipment and equipment hours per Project Applicant

Off-road Equipment - Equipment and equipment hours provided by Project Applicant.

Trips and VMT - Vendor and haul trips derived from PlaceWorks. Tree hauling from vegetation removal = 1,000 haul trips.

Grading -

Architectural Coating - No parking lot for off site.

Vehicle Trips - Trip rates adjusted per TIA.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Land Use Change -

Construction Off-road Equipment Mitigation - Per Redding General Plan Policy 29. Tier 3 & 4 engines are a Project design feature proposed by the Applicant

Mobile Commute Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

River Crossing Marketplace - Shasta County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	152.00
tblConstructionPhase	NumDays	440.00	152.00
tblConstructionPhase	NumDays	45.00	77.00
tblConstructionPhase	NumDays	35.00	152.00
tblConstructionPhase	NumDays	20.00	10.00
tblLandUse	LotAcreage	2.73	3.57

River Crossing Marketplace - Shasta County, Winter

tblLandUse	LotAcreage	10.64	13.92
tblLandUse	LotAcreage	0.16	0.21
tblLandUse	LotAcreage	3.49	4.57
tblLandUse	LotAcreage	0.10	0.25
tblLandUse	LotAcreage	1.45	1.90
tblLandUse	LotAcreage	0.64	0.84
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	4.70
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.40
tblOffRoadEquipment	UsageHours	8.00	2.20
tblOffRoadEquipment	UsageHours	8.00	8.60
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	CO2IntensityFactor	641.35	220
tblTripsAndVMT	HaulingTripLength	20.00	12.50
tblTripsAndVMT	HaulingTripLength	20.00	15.40

River Crossing Marketplace - Shasta County, Winter

tblTripsAndVMT	HaulingTripNumber	0.00	115.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,435.00
tblTripsAndVMT	HaulingTripNumber	0.00	420.00
tblTripsAndVMT	HaulingTripNumber	0.00	350.00
tblTripsAndVMT	VendorTripNumber	133.00	198.00
tblTripsAndVMT	WorkerTripNumber	318.00	485.00
tblTripsAndVMT	WorkerTripNumber	64.00	97.00
tblVehicleTrips	ST_TR	53.75	34.49
tblVehicleTrips	ST_TR	722.03	253.08
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	42.04	34.63
tblVehicleTrips	SU_TR	33.67	34.49
tblVehicleTrips	SU_TR	542.72	253.08
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	20.43	34.63
tblVehicleTrips	WD_TR	41.80	34.49
tblVehicleTrips	WD_TR	496.12	253.08
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	44.32	34.63

2.0 Emissions Summary

River Crossing Marketplace - Shasta County, Winter

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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Energy	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
Mobile	18.8137	153.5855	175.3881	0.4932	28.0547	0.6543	28.7091	7.5258	0.6193	8.1451		50,262.5062	50,262.5062	5.4141		50,397.8588
Total	25.5483	154.6137	176.3398	0.4994	28.0547	0.7327	28.7875	7.5258	0.6977	8.2235		51,495.6025	51,495.6025	5.4382	0.0226	51,638.2943

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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Energy	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
Mobile	18.8137	153.5855	175.3881	0.4932	28.0547	0.6543	28.7091	7.5258	0.6193	8.1451		50,262.5062	50,262.5062	5.4141		50,397.8588
Total	25.5483	154.6137	176.3398	0.4994	28.0547	0.7327	28.7875	7.5258	0.6977	8.2235		51,495.6025	51,495.6025	5.4382	0.0226	51,638.2943

River Crossing Marketplace - Shasta County, Winter

	ROG	NOx	CO	SO2	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	6/1/2019	6/14/2019	5	10	
2	Grading	Grading	6/15/2019	10/1/2019	5	77	
3	Building Construction	Building Construction	10/2/2019	4/30/2020	5	152	
4	Paving	Paving	10/2/2019	4/30/2020	5	152	
5	Architectural Coating	Architectural Coating	10/2/2019	4/30/2020	5	152	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 131.38

Acres of Paving: 18.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 339,803; Non-Residential Outdoor: 113,268; Striped Parking Area: 34,932 (Architectural Coating – sqft)

OffRoad Equipment

River Crossing Marketplace - Shasta County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	2	8.80	158	0.38
Site Preparation	Rollers	1	0.80	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	4.80	97	0.37
Grading	Excavators	3	2.30	158	0.38
Grading	Graders	3	4.70	187	0.41
Grading	Rollers	4	7.30	80	0.38
Grading	Rubber Tired Dozers	1	0.40	247	0.40
Grading	Scrapers	3	2.20	367	0.48
Grading	Tractors/Loaders/Backhoes	5	8.60	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	0.90	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	2	0.20	80	0.38
Paving	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

River Crossing Marketplace - Shasta County, Winter

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	5	13.00	0.00	115.00	10.80	7.30	12.50	LD_Mix	HDT_Mix	HHDT
Grading	19	48.00	0.00	1,435.00	10.80	7.30	15.40	LD_Mix	HDT_Mix	HHDT
Building Construction	9	485.00	198.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	420.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	97.00	0.00	350.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8756	8.9291	10.1330	0.0154		0.4865	0.4865		0.4476	0.4476		1,519.4949	1,519.4949	0.4808		1,531.5137
Total	0.8756	8.9291	10.1330	0.0154	0.0000	0.4865	0.4865	0.0000	0.4476	0.4476		1,519.4949	1,519.4949	0.4808		1,531.5137

River Crossing Marketplace - Shasta County, Winter

3.2 Site Preparation - 2019

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	0.0779	2.6713	0.4029	6.3400e-003	0.1260	0.0114	0.1374	0.0346	0.0109	0.0455		664.8075	664.8075	0.0610		666.3336
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		103.6378	103.6378	4.1700e-003		103.7421
Total	0.1418	2.7267	0.8778	7.3800e-003	0.2328	0.0122	0.2450	0.0629	0.0117	0.0745		768.4453	768.4453	0.0652		770.0757

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4305	3.6965	11.0379	0.0154		0.1844	0.1844		0.1709	0.1709	0.0000	1,519.4949	1,519.4949	0.4808		1,531.5137
Total	0.4305	3.6965	11.0379	0.0154	0.0000	0.1844	0.1844	0.0000	0.1709	0.1709	0.0000	1,519.4949	1,519.4949	0.4808		1,531.5137

River Crossing Marketplace - Shasta County, Winter

3.2 Site Preparation - 2019

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	0.0779	2.6713	0.4029	6.3400e-003	0.0880	0.0114	0.0994	0.0252	0.0109	0.0362		664.8075	664.8075	0.0610		666.3336
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		103.6378	103.6378	4.1700e-003		103.7421
Total	0.1418	2.7267	0.8778	7.3800e-003	0.1576	0.0122	0.1698	0.0444	0.0117	0.0561		768.4453	768.4453	0.0652		770.0757

3.3 Grading - 2019

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					2.1106	0.0000	2.1106	0.3609	0.0000	0.3609			0.0000			0.0000
Off-Road	4.0965	45.9099	32.2574	0.0553		2.3071	2.3071		2.1225	2.1225		5,480.4153	5,480.4153	1.7340		5,523.7639
Total	4.0965	45.9099	32.2574	0.0553	2.1106	2.3071	4.4176	0.3609	2.1225	2.4834		5,480.4153	5,480.4153	1.7340		5,523.7639

River Crossing Marketplace - Shasta County, Winter

3.3 Grading - 2019

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	0.1437	4.8690	0.7375	0.0121	0.2514	0.0221	0.2736	0.0690	0.0212	0.0901		1,268.8287	1,268.8287	0.0998		1,271.3231
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
Worker	0.2361	0.2047	1.7533	3.8500e-003	0.3943	2.9100e-003	0.3972	0.1046	2.6800e-003	0.1073		382.6625	382.6625	0.0154		383.0477
Total	0.3797	5.0737	2.4908	0.0160	0.6457	0.0251	0.6708	0.1735	0.0239	0.1974		1,651.4912	1,651.4912	0.1152		1,654.3708

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8073	0.0000	0.8073	0.1380	0.0000	0.1380			0.0000			0.0000
Off-Road	1.1460	8.1905	33.9557	0.0553		0.4377	0.4377		0.4089	0.4089	0.0000	5,480.4152	5,480.4152	1.7340		5,523.7639
Total	1.1460	8.1905	33.9557	0.0553	0.8073	0.4377	1.2450	0.1380	0.4089	0.5469	0.0000	5,480.4152	5,480.4152	1.7340		5,523.7639

River Crossing Marketplace - Shasta County, Winter

3.3 Grading - 2019

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	0.1437	4.8690	0.7375	0.0121	0.1755	0.0221	0.1977	0.0503	0.0212	0.0715		1,268.8287	1,268.8287	0.0998		1,271.3231
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
Worker	0.2361	0.2047	1.7533	3.8500e-003	0.2572	2.9100e-003	0.2601	0.0709	2.6800e-003	0.0736		382.6625	382.6625	0.0154		383.0477
Total	0.3797	5.0737	2.4908	0.0160	0.4328	0.0251	0.4578	0.1213	0.0239	0.1451		1,651.4912	1,651.4912	0.1152		1,654.3708

3.4 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

River Crossing Marketplace - Shasta County, Winter

3.4 Building Construction - 2019

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
Vendor	1.1002	26.7396	6.7838	0.0567	1.3419	0.2120	1.5539	0.3864	0.2029	0.5892		5,924.1153	5,924.1153	0.5685		5,938.3273
Worker	2.3852	2.0682	17.7156	0.0389	3.9842	0.0294	4.0136	1.0568	0.0271	1.0839		3,866.4860	3,866.4860	0.1557		3,870.3776
Total	3.4854	28.8078	24.4994	0.0956	5.3260	0.2414	5.5674	1.4432	0.2300	1.6731		9,790.6012	9,790.6012	0.7241		9,808.7049

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	0.6516	8.9834	17.8448	0.0269		0.5071	0.5071		0.4979	0.4979	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6516	8.9834	17.8448	0.0269		0.5071	0.5071		0.4979	0.4979	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

River Crossing Marketplace - Shasta County, Winter

3.4 Building Construction - 2019

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
Vendor	1.1002	26.7396	6.7838	0.0567	0.9597	0.2120	1.1717	0.2926	0.2029	0.4954		5,924.1153	5,924.1153	0.5685		5,938.3273
Worker	2.3852	2.0682	17.7156	0.0389	2.5991	0.0294	2.6285	0.7168	0.0271	0.7439		3,866.4860	3,866.4860	0.1557		3,870.3776
Total	3.4854	28.8078	24.4994	0.0956	3.5588	0.2414	3.8002	1.0094	0.2300	1.2393		9,790.6012	9,790.6012	0.7241		9,808.7049

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

River Crossing Marketplace - Shasta County, Winter

3.4 Building Construction - 2020

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
Vendor	0.8930	24.3152	5.9142	0.0563	1.3419	0.1361	1.4779	0.3864	0.1302	0.5165		5,882.2147	5,882.2147	0.5205			5,895.2259
Worker	2.1356	1.8025	15.4426	0.0376	3.9842	0.0284	4.0125	1.0568	0.0261	1.0829		3,744.1868	3,744.1868	0.1316			3,747.4757
Total	3.0286	26.1177	21.3568	0.0939	5.3260	0.1644	5.4904	1.4432	0.1563	1.5995		9,626.4015	9,626.4015	0.6520			9,642.7016

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	0.6345	8.8127	17.8279	0.0269		0.4902	0.4902		0.4824	0.4824	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
Total	0.6345	8.8127	17.8279	0.0269		0.4902	0.4902		0.4824	0.4824	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345

River Crossing Marketplace - Shasta County, Winter

3.4 Building Construction - 2020

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
Vendor	0.8930	24.3152	5.9142	0.0563	0.9597	0.1361	1.0957	0.2926	0.1302	0.4227		5,882.2147	5,882.2147	0.5205		5,895.2259
Worker	2.1356	1.8025	15.4426	0.0376	2.5991	0.0284	2.6275	0.7168	0.0261	0.7430		3,744.1868	3,744.1868	0.1316		3,747.4757
Total	3.0286	26.1177	21.3568	0.0939	3.5588	0.1644	3.7232	1.0094	0.1563	1.1657		9,626.4015	9,626.4015	0.6520		9,642.7016

3.5 Paving - 2019

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	0.1019	1.0479	0.9975	1.4400e-003		0.0636	0.0636		0.0585	0.0585		142.2382	142.2382	0.0450		143.3633
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3563	1.0479	0.9975	1.4400e-003		0.0636	0.0636		0.0585	0.0585		142.2382	142.2382	0.0450		143.3633

River Crossing Marketplace - Shasta County, Winter

3.5 Paving - 2019

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	0.0254	0.8489	0.1293	2.2200e-003	0.0973	4.1400e-003	0.1014	0.0253	3.9600e-003	0.0292		233.1564	233.1564	0.0150		233.5313
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
Worker	0.0492	0.0426	0.3653	8.0000e-004	0.0822	6.1000e-004	0.0828	0.0218	5.6000e-004	0.0224		79.7214	79.7214	3.2100e-003		79.8016
Total	0.0746	0.8916	0.4945	3.0200e-003	0.1794	4.7500e-003	0.1842	0.0471	4.5200e-003	0.0516		312.8777	312.8777	0.0182		313.3329

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	0.0392	0.4673	1.0822	1.4400e-003		0.0253	0.0253		0.0243	0.0243	0.0000	142.2382	142.2382	0.0450		143.3633
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2936	0.4673	1.0822	1.4400e-003		0.0253	0.0253		0.0243	0.0243	0.0000	142.2382	142.2382	0.0450		143.3633

River Crossing Marketplace - Shasta County, Winter

3.5 Paving - 2019

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	0.0254	0.8489	0.1293	2.2200e-003	0.0631	4.1400e-003	0.0673	0.0169	3.9600e-003	0.0208		233.1564	233.1564	0.0150		233.5313
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
Worker	0.0492	0.0426	0.3653	8.0000e-004	0.0536	6.1000e-004	0.0542	0.0148	5.6000e-004	0.0153		79.7214	79.7214	3.2100e-003		79.8016
Total	0.0746	0.8916	0.4945	3.0200e-003	0.1167	4.7500e-003	0.1215	0.0317	4.5200e-003	0.0362		312.8777	312.8777	0.0182		313.3329

3.5 Paving - 2020

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	0.0923	0.9465	0.9907	1.4400e-003		0.0553	0.0553		0.0509	0.0509		139.1136	139.1136	0.0450		140.2384
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3468	0.9465	0.9907	1.4400e-003		0.0553	0.0553		0.0509	0.0509		139.1136	139.1136	0.0450		140.2384

River Crossing Marketplace - Shasta County, Winter

3.5 Paving - 2020

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	0.0225	0.7822	0.1187	2.2000e-003	0.0757	3.0400e-003	0.0787	0.0200	2.9100e-003	0.0229		230.5955	230.5955	0.0139		230.9418
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
Worker	0.0440	0.0372	0.3184	7.8000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		77.1997	77.1997	2.7100e-003		77.2675
Total	0.0665	0.8193	0.4371	2.9800e-003	0.1578	3.6200e-003	0.1615	0.0418	3.4500e-003	0.0452		307.7952	307.7952	0.0166		308.2094

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	0.0374	0.4499	1.0805	1.4400e-003		0.0235	0.0235		0.0227	0.0227	0.0000	139.1136	139.1136	0.0450		140.2384
Paving	0.2544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2919	0.4499	1.0805	1.4400e-003		0.0235	0.0235		0.0227	0.0227	0.0000	139.1136	139.1136	0.0450		140.2384

River Crossing Marketplace - Shasta County, Winter

3.5 Paving - 2020

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	0.0225	0.7822	0.1187	2.2000e-003	0.0502	3.0400e-003	0.0532	0.0137	2.9100e-003	0.0166		230.5955	230.5955	0.0139		230.9418
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
Worker	0.0440	0.0372	0.3184	7.8000e-004	0.0536	5.8000e-004	0.0542	0.0148	5.4000e-004	0.0153		77.1997	77.1997	2.7100e-003		77.2675
Total	0.0665	0.8193	0.4371	2.9800e-003	0.1038	3.6200e-003	0.1074	0.0285	3.4500e-003	0.0319		307.7952	307.7952	0.0166		308.2094

3.6 Architectural Coating - 2019

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	37.4686	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

River Crossing Marketplace - Shasta County, Winter

3.6 Architectural Coating - 2019

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	0.0212	0.7074	0.1077	1.8500e-003	0.0811	3.4500e-003	0.0845	0.0211	3.3000e-003	0.0244		194.2970	194.2970	0.0125		194.6094
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
Worker	0.4770	0.4136	3.5431	7.7800e-003	0.7968	5.8800e-003	0.8027	0.2114	5.4200e-003	0.2168		773.2972	773.2972	0.0311		774.0755
Total	0.4982	1.1211	3.6508	9.6300e-003	0.8779	9.3300e-003	0.8872	0.2324	8.7200e-003	0.2411		967.5942	967.5942	0.0436		968.6849

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	37.2616	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

River Crossing Marketplace - Shasta County, Winter

3.6 Architectural Coating - 2019

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	0.0212	0.7074	0.1077	1.8500e-003	0.0526	3.4500e-003	0.0561	0.0141	3.3000e-003	0.0174		194.2970	194.2970	0.0125		194.6094
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
Worker	0.4770	0.4136	3.5431	7.7800e-003	0.5198	5.8800e-003	0.5257	0.1434	5.4200e-003	0.1488		773.2972	773.2972	0.0311		774.0755
Total	0.4982	1.1211	3.6508	9.6300e-003	0.5724	9.3300e-003	0.5818	0.1574	8.7200e-003	0.1662		967.5942	967.5942	0.0436		968.6849

3.6 Architectural Coating - 2020

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	37.4444	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

River Crossing Marketplace - Shasta County, Winter

3.6 Architectural Coating - 2020

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	0.0188	0.6518	0.0989	1.8300e-003	0.0631	2.5300e-003	0.0656	0.0166	2.4200e-003	0.0191		192.1629	192.1629	0.0116		192.4515
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
Worker	0.4271	0.3605	3.0885	7.5300e-003	0.7968	5.6700e-003	0.8025	0.2114	5.2300e-003	0.2166		748.8374	748.8374	0.0263		749.4951
Total	0.4459	1.0123	3.1874	9.3600e-003	0.8599	8.2000e-003	0.8681	0.2280	7.6500e-003	0.2357		941.0002	941.0002	0.0379		941.9467

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	37.2022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	37.2616	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928

River Crossing Marketplace - Shasta County, Winter

3.6 Architectural Coating - 2020

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	0.0188	0.6518	0.0989	1.8300e-003	0.0418	2.5300e-003	0.0443	0.0114	2.4200e-003	0.0139		192.1629	192.1629	0.0116		192.4515
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
Worker	0.4271	0.3605	3.0885	7.5300e-003	0.5198	5.6700e-003	0.5255	0.1434	5.2300e-003	0.1486		748.8374	748.8374	0.0263		749.4951
Total	0.4459	1.0123	3.1874	9.3600e-003	0.5616	8.2000e-003	0.5698	0.1548	7.6500e-003	0.1624		941.0002	941.0002	0.0379		941.9467

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Employee Vanpool/Shuttle

River Crossing Marketplace - Shasta County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	18.8137	153.5855	175.3881	0.4932	28.0547	0.6543	28.7091	7.5258	0.6193	8.1451		50,262.50 62	50,262.50 62	5.4141		50,397.85 88
Unmitigated	18.8137	153.5855	175.3881	0.4932	28.0547	0.6543	28.7091	7.5258	0.6193	8.1451		50,262.50 62	50,262.50 62	5.4141		50,397.85 88

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	5,249.38	5,249.38	5,249.38	8,086,528	8,086,528
Fast Food Restaurant with Drive Thru	1,720.94	1,720.94	1,720.94	1,607,921	1,607,921
Gasoline/Service Station	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	2,192.08	2,192.08	2,192.08	3,375,874	3,375,874
Total	9,162.40	9,162.40	9,162.40	13,070,323	13,070,323

4.3 Trip Type Information

River Crossing Marketplace - Shasta County, Winter

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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Fast Food Restaurant with Drive Thru	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Gasoline/Service Station	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Parking Lot	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Strip Mall	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

River Crossing Marketplace - Shasta County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341
NaturalGas Unmitigated	0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

River Crossing Marketplace - Shasta County, Winter

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					
Discount Club	4461.75	0.0481	0.4374	0.3674	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.9122	524.9122	0.0101	9.6200e-003	528.0315
Fast Food Restaurant with Drive Thru	3920.15	0.0423	0.3843	0.3228	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.1945	461.1945	8.8400e-003	8.4600e-003	463.9352
Gasoline/Service Station	242.163	2.6100e-003	0.0237	0.0199	1.4000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003		28.4898	28.4898	5.5000e-004	5.2000e-004	28.6591
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
Parking Lot	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
Strip Mall	1855.64	0.0200	0.1819	0.1528	1.0900e-003		0.0138	0.0138		0.0138	0.0138		218.3110	218.3110	4.1800e-003	4.0000e-003	219.6084
Total		0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

River Crossing Marketplace - Shasta County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Discount Club	4.46175	0.0481	0.4374	0.3674	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.9122	524.9122	0.0101	9.6200e-003	528.0315
Fast Food Restaurant with Drive Thru	3.92015	0.0423	0.3843	0.3228	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.1945	461.1945	8.8400e-003	8.4600e-003	463.9352
Gasoline/Service Station	0.242163	2.6100e-003	0.0237	0.0199	1.4000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003		28.4898	28.4898	5.5000e-004	5.2000e-004	28.6591
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
Parking Lot	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
Strip Mall	1.85564	0.0200	0.1819	0.1528	1.0900e-003		0.0138	0.0138		0.0138	0.0138		218.3110	218.3110	4.1800e-003	4.0000e-003	219.6084
Total		0.1130	1.0274	0.8630	6.1600e-003		0.0781	0.0781		0.0781	0.0781		1,232.9076	1,232.9076	0.0236	0.0226	1,240.2341

6.0 Area Detail

6.1 Mitigation Measures Area

River Crossing Marketplace - Shasta County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Unmitigated	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3400e-003	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Total	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

River Crossing Marketplace - Shasta County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3400e-003	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014
Total	6.6216	8.2000e-004	0.0886	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		0.1888	0.1888	5.1000e-004		0.2014

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

River Crossing Marketplace - Shasta County, Winter

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

River Crossing Marketplace - Off-Site Improvements
Shasta County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	355.80	1000sqft	8.17	355,800.00	0
Other Non-Asphalt Surfaces	15.50	1000sqft	0.36	15,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

Project Characteristics -

Land Use -

Construction Phase - Off-site construction duration per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Grading -

Trips and VMT - Haul Trips per Project Applicant

Construction Off-road Equipment Mitigation - Per Redding General Plan Policy 29

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	230.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	230.00	25.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	PhaseEndDate	5/27/2020	8/9/2019
tblConstructionPhase	PhaseEndDate	5/15/2019	7/5/2019
tblConstructionPhase	PhaseEndDate	4/29/2020	9/13/2019
tblConstructionPhase	PhaseStartDate	4/30/2020	7/6/2019
tblConstructionPhase	PhaseStartDate	4/18/2019	6/1/2019
tblConstructionPhase	PhaseStartDate	4/2/2020	8/10/2019
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Graders
tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6755	85.8017	41.8444	0.1549	11.4549	2.5458	12.5114	2.8673	2.3484	3.8432	0.0000	15,811.8309	15,811.8309	2.6301	0.0000	15,877.5833
2020	3.2190	39.2715	22.2783	0.0959	2.4014	0.9452	3.3466	0.6450	0.8727	1.5178	0.0000	9,703.4347	9,703.4347	1.3390	0.0000	9,736.9100
Maximum	6.6755	85.8017	41.8444	0.1549	11.4549	2.5458	12.5114	2.8673	2.3484	3.8432	0.0000	15,811.8309	15,811.8309	2.6301	0.0000	15,877.5833

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6755	85.8017	41.8444	0.1549	7.0431	2.5458	8.0996	1.7844	2.3484	2.9049	0.0000	15,811.8309	15,811.8309	2.6301	0.0000	15,877.5833
2020	3.2190	39.2715	22.2783	0.0959	1.6110	0.9452	2.5562	0.4510	0.8727	1.3238	0.0000	9,703.4347	9,703.4347	1.3390	0.0000	9,736.9100
Maximum	6.6755	85.8017	41.8444	0.1549	7.0431	2.5458	8.0996	1.7844	2.3484	2.9049	0.0000	15,811.8309	15,811.8309	2.6301	0.0000	15,877.5833

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

	ROG	NOx	CO	SO2	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	37.54	0.00	32.81	36.36	0.00	21.12	0.00	0.00	0.00	0.00	0.00	0.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2058	3.5000e-004	0.0382	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004	0.0000	0.0867

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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2058	3.5000e-004	0.0382	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004	0.0000	0.0867

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

	ROG	NOx	CO	SO2	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	Earthwork 1	Grading	6/1/2019	7/5/2019	5	25	
2	Utilities and Concrete 1	Building Construction	7/6/2019	8/9/2019	5	25	
3	Paving-Electrical-Striping 1	Paving	8/10/2019	9/13/2019	5	25	
4	Earthwork 2	Grading	8/10/2019	9/13/2019	5	25	
5	Utilities and Concrete 2	Building Construction	9/14/2019	10/18/2019	5	25	
6	Paving-Electrical-Striping 2	Paving	10/19/2019	11/22/2019	5	25	
7	Earthwork 3	Grading	11/23/2019	12/27/2019	5	25	
8	Utilities and Concrete 3	Building Construction	12/28/2019	1/31/2020	5	25	
9	Paving-Electrical-Striping 3	Paving	2/1/2020	3/6/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.53

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving-Electrical-Striping 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

Earthwork 3	Paving Equipment	1	8.00	132	0.36
Earthwork 3	Plate Compactors	1	8.00	8	0.43
Earthwork 3	Scrapers	2	8.00	367	0.48
Utilities and Concrete 3	Excavators	2	8.00	158	0.38
Utilities and Concrete 3	Graders	1	8.00	187	0.41
Utilities and Concrete 3	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 3	Rubber Tired Loaders	2	8.00	203	0.36
Paving-Electrical-Striping 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 1	Air Compressors	0	6.00	78	0.48
Utilities and Concrete 1	Cranes	0	7.00	231	0.29
Utilities and Concrete 2	Cranes	0	7.00	231	0.29
Earthwork 1	Excavators	1	8.00	158	0.38
Utilities and Concrete 3	Cranes	0	7.00	231	0.29
Earthwork 2	Excavators	1	8.00	158	0.38
Earthwork 3	Excavators	1	8.00	158	0.38
Paving-Electrical-Striping 1	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 1	Rollers	3	8.00	80	0.38
Utilities and Concrete 1	Forklifts	0	8.00	89	0.20
Earthwork 1	Rubber Tired Dozers	0	8.00	247	0.40
Utilities and Concrete 2	Forklifts	0	8.00	89	0.20
Earthwork 1	Graders	2	8.00	187	0.41
Earthwork 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving-Electrical-Striping 1	Paving Equipment	1	8.00	132	0.36
Utilities and Concrete 3	Forklifts	0	8.00	89	0.20
Utilities and Concrete 1	Generator Sets	0	8.00	84	0.74
Utilities and Concrete 2	Generator Sets	0	8.00	84	0.74
Utilities and Concrete 3	Generator Sets	0	8.00	84	0.74

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

Earthwork 2	Graders	2	8.00	187	0.41
Earthwork 3	Graders	2	8.00	187	0.41
Paving-Electrical-Striping 2	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 3	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 2	Paving Equipment	1	8.00	132	0.36
Paving-Electrical-Striping 3	Paving Equipment	1	8.00	132	0.36
Paving-Electrical-Striping 2	Rollers	3	8.00	80	0.38
Paving-Electrical-Striping 3	Rollers	3	8.00	80	0.38
Earthwork 2	Rubber Tired Dozers	0	8.00	247	0.40
Earthwork 3	Rubber Tired Dozers	0	8.00	247	0.40
Utilities and Concrete 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Earthwork 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Earthwork 3	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utilities and Concrete 1	Welders	0	8.00	46	0.45
Utilities and Concrete 2	Welders	0	8.00	46	0.45
Utilities and Concrete 3	Welders	0	8.00	46	0.45
Earthwork 1	Paving Equipment	1	8.00	132	0.36
Earthwork 1	Plate Compactors	1	8.00	8	0.43
Earthwork 1	Scrapers	2	8.00	367	0.48
Utilities and Concrete 1	Rubber Tired Loaders	2	8.00	203	0.36
Utilities and Concrete 1	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 1	Excavators	2	8.00	158	0.38
Utilities and Concrete 1	Graders	1	8.00	187	0.41
Paving-Electrical-Striping 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Earthwork 2	Paving Equipment	1	8.00	132	0.36

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

Earthwork 2	Plate Compactors	1	8.00	8	0.43
Earthwork 2	Scrapers	2	8.00	367	0.48
Utilities and Concrete 2	Excavators	2	8.00	158	0.38
Utilities and Concrete 2	Graders	1	8.00	187	0.41
Utilities and Concrete 2	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 2	Rubber Tired Loaders	2	8.00	203	0.36

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
Utilities and Concrete 1	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities and Concrete 2	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities and Concrete 3	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 1	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 1	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 2	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 3	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 2	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 3	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.2 Earthwork 1 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.5184	0.0433	0.5617	0.1422	0.0414	0.1836		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.6663	0.0444	0.7107	0.1814	0.0424	0.2238		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.2 Earthwork 1 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.3619	0.0433	0.4052	0.1037	0.0414	0.1452		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.4583	0.0444	0.5027	0.1303	0.0424	0.1728		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.3 Utilities and Concrete 1 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	1.0508	0.0877	1.1386	0.2882	0.0840	0.3721		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	2.3323	0.0972	2.4295	0.6281	0.0927	0.7208		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.3 Utilities and Concrete 1 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	0.7335	0.0877	0.8213	0.2103	0.0840	0.2942		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	1.5695	0.0972	1.6667	0.4409	0.0927	0.5335		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.4 Paving-Electrical-Striping 1 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6391	21.4002	2.9515	0.0593	1.2610	0.1053	1.3663	0.3458	0.1007	0.4465		6,217.1836	6,217.1836	0.3466		6,225.8496
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		119.5053	119.5053	4.8100e-003		119.6256
Total	0.7122	21.4465	3.5115	0.0605	1.3678	0.1061	1.4739	0.3741	0.1015	0.4756		6,336.6889	6,336.6889	0.3515		6,345.4751

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.4 Paving-Electrical-Striping 1 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6391	21.4002	2.9515	0.0593	0.8802	0.1053	0.9855	0.2523	0.1007	0.3531		6,217.1836	6,217.1836	0.3466		6,225.8496
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		119.5053	119.5053	4.8100e-003		119.6256
Total	0.7122	21.4465	3.5115	0.0605	0.9499	0.1061	1.0560	0.2716	0.1015	0.3730		6,336.6889	6,336.6889	0.3515		6,345.4751

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.5 Earthwork 2 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.5184	0.0433	0.5617	0.1422	0.0414	0.1836		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.6663	0.0444	0.7107	0.1814	0.0424	0.2238		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.5 Earthwork 2 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.3619	0.0433	0.4052	0.1037	0.0414	0.1452		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.4583	0.0444	0.5027	0.1303	0.0424	0.1728		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.6 Utilities and Concrete 2 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	1.0508	0.0877	1.1386	0.2882	0.0840	0.3721		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	2.3323	0.0972	2.4295	0.6281	0.0927	0.7208		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.6 Utilities and Concrete 2 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	0.7335	0.0877	0.8213	0.2103	0.0840	0.2942		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	1.5695	0.0972	1.6667	0.4409	0.0927	0.5335		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.7 Paving-Electrical-Striping 2 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6391	21.4002	2.9515	0.0593	1.2610	0.1053	1.3663	0.3458	0.1007	0.4465		6,217.1836	6,217.1836	0.3466		6,225.8496
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		119.5053	119.5053	4.8100e-003		119.6256
Total	0.7122	21.4465	3.5115	0.0605	1.3678	0.1061	1.4739	0.3741	0.1015	0.4756		6,336.6889	6,336.6889	0.3515		6,345.4751

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.7 Paving-Electrical-Striping 2 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6391	21.4002	2.9515	0.0593	0.8802	0.1053	0.9855	0.2523	0.1007	0.3531		6,217.1836	6,217.1836	0.3466		6,225.8496
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
Worker	0.0731	0.0463	0.5600	1.2000e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		119.5053	119.5053	4.8100e-003		119.6256
Total	0.7122	21.4465	3.5115	0.0605	0.9499	0.1061	1.0560	0.2716	0.1015	0.3730		6,336.6889	6,336.6889	0.3515		6,345.4751

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.8 Earthwork 3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.5184	0.0433	0.5617	0.1422	0.0414	0.1836		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.6663	0.0444	0.7107	0.1814	0.0424	0.2238		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.8 Earthwork 3 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2628	8.7979	1.2134	0.0244	0.3619	0.0433	0.4052	0.1037	0.0414	0.1452		2,555.9532	2,555.9532	0.1425		2,559.5159
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
Worker	0.1012	0.0641	0.7754	1.6600e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		165.4689	165.4689	6.6600e-003		165.6354
Total	0.3639	8.8620	1.9888	0.0261	0.4583	0.0444	0.5027	0.1303	0.0424	0.1728		2,721.4221	2,721.4221	0.1492		2,725.1513

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.9 Utilities and Concrete 3 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	10.1734	0.0877	10.2612	2.5274	0.0840	2.6113		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	11.4549	0.0972	11.5521	2.8673	0.0927	2.9599		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.9 Utilities and Concrete 3 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5326	17.8335	2.4596	0.0494	6.2071	0.0877	6.2948	1.5538	0.0840	1.6377		5,180.9863	5,180.9863	0.2889		5,188.2080
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
Worker	0.8769	0.5558	6.7201	0.0144	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,434.0635	1,434.0635	0.0577		1,435.5067
Total	1.4095	18.3893	9.1797	0.0639	7.0431	0.0972	7.1403	1.7844	0.0927	1.8770		6,615.0498	6,615.0498	0.3466		6,623.7146

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.9 Utilities and Concrete 3 - 2020

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	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027		3,188.5233	3,188.5233	1.0237		3,214.1148
Total	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027		3,188.5233	3,188.5233	1.0237		3,214.1148

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	0.4713	16.4600	2.2597	0.0489	1.1199	0.0645	1.1843	0.3051	0.0617	0.3668		5,126.0241	5,126.0241	0.2661		5,132.6776
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
Worker	0.7841	0.4852	5.9075	0.0140	1.2815	9.1200e-003	1.2906	0.3399	8.4100e-003	0.3483		1,388.8874	1,388.8874	0.0492		1,390.1176
Total	1.2554	16.9451	8.1672	0.0629	2.4014	0.0736	2.4749	0.6450	0.0701	0.7151		6,514.9115	6,514.9115	0.3154		6,522.7953

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.9 Utilities and Concrete 3 - 2020

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	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027	0.0000	3,188.5233	3,188.5233	1.0237		3,214.1148
Total	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027	0.0000	3,188.5233	3,188.5233	1.0237		3,214.1148

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	0.4713	16.4600	2.2597	0.0489	0.7750	0.0645	0.8394	0.2205	0.0617	0.2821		5,126.0241	5,126.0241	0.2661		5,132.6776
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
Worker	0.7841	0.4852	5.9075	0.0140	0.8360	9.1200e-003	0.8451	0.2306	8.4100e-003	0.2390		1,388.8874	1,388.8874	0.0492		1,390.1176
Total	1.2554	16.9451	8.1672	0.0629	1.6110	0.0736	1.6845	0.4510	0.0701	0.5211		6,514.9115	6,514.9115	0.3154		6,522.7953

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.10 Paving-Electrical-Striping 3 - 2020

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	1.0406	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867		1,456.2767	1,456.2767	0.4710		1,468.0514
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8968	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867		1,456.2767	1,456.2767	0.4710		1,468.0514

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	0.5655	19.7520	2.7117	0.0587	1.2611	0.0774	1.3384	0.3458	0.0740	0.4198		6,151.2289	6,151.2289	0.3194		6,159.2132
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
Worker	0.0653	0.0404	0.4923	1.1600e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		115.7406	115.7406	4.1000e-003		115.8431
Total	0.6309	19.7924	3.2040	0.0599	1.3679	0.0781	1.4460	0.3742	0.0747	0.4489		6,266.9695	6,266.9695	0.3235		6,275.0563

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

3.10 Paving-Electrical-Striping 3 - 2020

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	1.0406	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867	0.0000	1,456.2767	1,456.2767	0.4710		1,468.0514
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8968	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867	0.0000	1,456.2767	1,456.2767	0.4710		1,468.0514

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	0.5655	19.7520	2.7117	0.0587	0.8803	0.0774	0.9576	0.2524	0.0740	0.3264		6,151.2289	6,151.2289	0.3194		6,159.2132
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
Worker	0.0653	0.0404	0.4923	1.1600e-003	0.0697	7.6000e-004	0.0704	0.0192	7.0000e-004	0.0199		115.7406	115.7406	4.1000e-003		115.8431
Total	0.6309	19.7924	3.2040	0.0599	0.9500	0.0781	1.0281	0.2716	0.0747	0.3463		6,266.9695	6,266.9695	0.3235		6,275.0563

4.0 Operational Detail - Mobile

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Unmitigated	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Total	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Total	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

River Crossing Marketplace - Off-Site Improvements - Shasta County, Summer

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

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

River Crossing Marketplace - Off-Site Improvements
Shasta County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	355.80	1000sqft	8.17	355,800.00	0
Other Non-Asphalt Surfaces	15.50	1000sqft	0.36	15,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

Project Characteristics -

Land Use -

Construction Phase - Off-site construction duration per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Off-road Equipment - Equipment per Project Applicant

Grading -

Trips and VMT - Haul Trips per Project Applicant

Construction Off-road Equipment Mitigation - Per Redding General Plan Policy 29

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	230.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	230.00	25.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	PhaseEndDate	5/27/2020	8/9/2019
tblConstructionPhase	PhaseEndDate	5/15/2019	7/5/2019
tblConstructionPhase	PhaseEndDate	4/29/2020	9/13/2019
tblConstructionPhase	PhaseStartDate	4/30/2020	7/6/2019
tblConstructionPhase	PhaseStartDate	4/18/2019	6/1/2019
tblConstructionPhase	PhaseStartDate	4/2/2020	8/10/2019
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentType		Excavators
tbloffRoadEquipment	OffRoadEquipmentType		Graders
tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	740.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,800.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6859	86.8400	42.2288	0.1526	11.4549	2.5493	12.5135	2.8673	2.3517	3.8452	0.0000	15,573.90 49	15,573.90 49	2.6908	0.0000	15,641.17 48
2020	3.1392	39.8906	21.6553	0.0929	2.4014	0.9468	3.3481	0.6450	0.8742	1.5193	0.0000	9,400.054 5	9,400.054 5	1.3668	0.0000	9,434.225 4
Maximum	6.6859	86.8400	42.2288	0.1526	11.4549	2.5493	12.5135	2.8673	2.3517	3.8452	0.0000	15,573.90 49	15,573.90 49	2.6908	0.0000	15,641.17 48

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6859	86.8400	42.2288	0.1526	7.0431	2.5493	8.1016	1.7844	2.3517	2.9082	0.0000	15,573.90 49	15,573.90 49	2.6908	0.0000	15,641.17 48
2020	3.1392	39.8906	21.6553	0.0929	1.6110	0.9468	2.5577	0.4510	0.8742	1.3253	0.0000	9,400.054 5	9,400.054 5	1.3668	0.0000	9,434.225 4
Maximum	6.6859	86.8400	42.2288	0.1526	7.0431	2.5493	8.1016	1.7844	2.3517	2.9082	0.0000	15,573.90 49	15,573.90 49	2.6908	0.0000	15,641.17 48

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

	ROG	NOx	CO	SO2	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	37.54	0.00	32.80	36.36	0.00	21.08	0.00	0.00	0.00	0.00	0.00	0.00

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2058	3.5000e-004	0.0382	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004	0.0000	0.0867

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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2058	3.5000e-004	0.0382	0.0000	0.0000	1.4000e-004	1.4000e-004	0.0000	1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004	0.0000	0.0867

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

	ROG	NOx	CO	SO2	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	Earthwork 1	Grading	6/1/2019	7/5/2019	5	25	
2	Utilities and Concrete 1	Building Construction	7/6/2019	8/9/2019	5	25	
3	Paving-Electrical-Striping 1	Paving	8/10/2019	9/13/2019	5	25	
4	Earthwork 2	Grading	8/10/2019	9/13/2019	5	25	
5	Utilities and Concrete 2	Building Construction	9/14/2019	10/18/2019	5	25	
6	Paving-Electrical-Striping 2	Paving	10/19/2019	11/22/2019	5	25	
7	Earthwork 3	Grading	11/23/2019	12/27/2019	5	25	
8	Utilities and Concrete 3	Building Construction	12/28/2019	1/31/2020	5	25	
9	Paving-Electrical-Striping 3	Paving	2/1/2020	3/6/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.53

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving-Electrical-Striping 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

Earthwork 3	Paving Equipment	1	8.00	132	0.36
Earthwork 3	Plate Compactors	1	8.00	8	0.43
Earthwork 3	Scrapers	2	8.00	367	0.48
Utilities and Concrete 3	Excavators	2	8.00	158	0.38
Utilities and Concrete 3	Graders	1	8.00	187	0.41
Utilities and Concrete 3	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 3	Rubber Tired Loaders	2	8.00	203	0.36
Paving-Electrical-Striping 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 1	Air Compressors	0	6.00	78	0.48
Utilities and Concrete 1	Cranes	0	7.00	231	0.29
Utilities and Concrete 2	Cranes	0	7.00	231	0.29
Earthwork 1	Excavators	1	8.00	158	0.38
Utilities and Concrete 3	Cranes	0	7.00	231	0.29
Earthwork 2	Excavators	1	8.00	158	0.38
Earthwork 3	Excavators	1	8.00	158	0.38
Paving-Electrical-Striping 1	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 1	Rollers	3	8.00	80	0.38
Utilities and Concrete 1	Forklifts	0	8.00	89	0.20
Earthwork 1	Rubber Tired Dozers	0	8.00	247	0.40
Utilities and Concrete 2	Forklifts	0	8.00	89	0.20
Earthwork 1	Graders	2	8.00	187	0.41
Earthwork 1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving-Electrical-Striping 1	Paving Equipment	1	8.00	132	0.36
Utilities and Concrete 3	Forklifts	0	8.00	89	0.20
Utilities and Concrete 1	Generator Sets	0	8.00	84	0.74
Utilities and Concrete 2	Generator Sets	0	8.00	84	0.74
Utilities and Concrete 3	Generator Sets	0	8.00	84	0.74

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

Earthwork 2	Graders	2	8.00	187	0.41
Earthwork 3	Graders	2	8.00	187	0.41
Paving-Electrical-Striping 2	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 3	Pavers	0	8.00	130	0.42
Paving-Electrical-Striping 2	Paving Equipment	1	8.00	132	0.36
Paving-Electrical-Striping 3	Paving Equipment	1	8.00	132	0.36
Paving-Electrical-Striping 2	Rollers	3	8.00	80	0.38
Paving-Electrical-Striping 3	Rollers	3	8.00	80	0.38
Earthwork 2	Rubber Tired Dozers	0	8.00	247	0.40
Earthwork 3	Rubber Tired Dozers	0	8.00	247	0.40
Utilities and Concrete 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Utilities and Concrete 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Earthwork 2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Earthwork 3	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utilities and Concrete 1	Welders	0	8.00	46	0.45
Utilities and Concrete 2	Welders	0	8.00	46	0.45
Utilities and Concrete 3	Welders	0	8.00	46	0.45
Earthwork 1	Paving Equipment	1	8.00	132	0.36
Earthwork 1	Plate Compactors	1	8.00	8	0.43
Earthwork 1	Scrapers	2	8.00	367	0.48
Utilities and Concrete 1	Rubber Tired Loaders	2	8.00	203	0.36
Utilities and Concrete 1	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 1	Excavators	2	8.00	158	0.38
Utilities and Concrete 1	Graders	1	8.00	187	0.41
Paving-Electrical-Striping 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Earthwork 2	Paving Equipment	1	8.00	132	0.36

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

Earthwork 2	Plate Compactors	1	8.00	8	0.43
Earthwork 2	Scrapers	2	8.00	367	0.48
Utilities and Concrete 2	Excavators	2	8.00	158	0.38
Utilities and Concrete 2	Graders	1	8.00	187	0.41
Utilities and Concrete 2	Plate Compactors	1	8.00	8	0.43
Utilities and Concrete 2	Rubber Tired Loaders	2	8.00	203	0.36

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
Utilities and Concrete 1	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities and Concrete 2	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities and Concrete 3	7	156.00	0.00	1,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 1	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 1	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 2	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork 3	7	18.00	0.00	740.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 2	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving-Electrical-Striping 3	5	13.00	0.00	1,800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.2 Earthwork 1 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.5184	0.0443	0.5627	0.1422	0.0424	0.1846		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.6663	0.0454	0.7117	0.1814	0.0434	0.2248		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.2 Earthwork 1 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.3619	0.0443	0.4062	0.1037	0.0424	0.1461		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.4583	0.0454	0.5037	0.1303	0.0434	0.1737		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.3 Utilities and Concrete 1 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	1.0508	0.0898	1.1407	0.2882	0.0859	0.3741		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	2.3323	0.0993	2.4316	0.6281	0.0946	0.7227		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.3 Utilities and Concrete 1 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	0.7335	0.0898	0.8233	0.2103	0.0859	0.2962		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	1.5695	0.0993	1.6688	0.4409	0.0946	0.5355		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.4 Paving-Electrical-Striping 1 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6620	22.1206	3.3679	0.0580	1.2610	0.1078	1.3688	0.3458	0.1031	0.4489		6,075.3889	6,075.3889	0.3907		6,085.1572
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		103.6378	103.6378	4.1700e-003		103.7421
Total	0.7259	22.1761	3.8427	0.0590	1.3678	0.1086	1.4764	0.3741	0.1038	0.4780		6,179.0267	6,179.0267	0.3949		6,188.8993

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.4 Paving-Electrical-Striping 1 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6620	22.1206	3.3679	0.0580	0.8802	0.1078	0.9880	0.2523	0.1031	0.3555		6,075.3889	6,075.3889	0.3907		6,085.1572
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		103.6378	103.6378	4.1700e-003		103.7421
Total	0.7259	22.1761	3.8427	0.0590	0.9499	0.1086	1.0585	0.2716	0.1038	0.3754		6,179.0267	6,179.0267	0.3949		6,188.8993

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.5 Earthwork 2 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.5184	0.0443	0.5627	0.1422	0.0424	0.1846		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.6663	0.0454	0.7117	0.1814	0.0434	0.2248		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.5 Earthwork 2 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.3619	0.0443	0.4062	0.1037	0.0424	0.1461		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.4583	0.0454	0.5037	0.1303	0.0434	0.1737		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.6 Utilities and Concrete 2 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	1.0508	0.0898	1.1407	0.2882	0.0859	0.3741		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	2.3323	0.0993	2.4316	0.6281	0.0946	0.7227		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.6 Utilities and Concrete 2 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	0.7335	0.0898	0.8233	0.2103	0.0859	0.2962		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	1.5695	0.0993	1.6688	0.4409	0.0946	0.5355		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.7 Paving-Electrical-Striping 2 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532		1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6620	22.1206	3.3679	0.0580	1.2610	0.1078	1.3688	0.3458	0.1031	0.4489		6,075.3889	6,075.3889	0.3907		6,085.1572
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.1068	7.9000e-004	0.1076	0.0283	7.3000e-004	0.0291		103.6378	103.6378	4.1700e-003		103.7421
Total	0.7259	22.1761	3.8427	0.0590	1.3678	0.1086	1.4764	0.3741	0.1038	0.4780		6,179.0267	6,179.0267	0.3949		6,188.8993

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.7 Paving-Electrical-Striping 2 - 2019

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	1.1254	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9816	11.3166	10.5480	0.0151		0.7100	0.7100		0.6532	0.6532	0.0000	1,489.9124	1,489.9124	0.4714		1,501.6972

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	0.6620	22.1206	3.3679	0.0580	0.8802	0.1078	0.9880	0.2523	0.1031	0.3555		6,075.3889	6,075.3889	0.3907		6,085.1572
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
Worker	0.0639	0.0554	0.4749	1.0400e-003	0.0697	7.9000e-004	0.0705	0.0192	7.3000e-004	0.0199		103.6378	103.6378	4.1700e-003		103.7421
Total	0.7259	22.1761	3.8427	0.0590	0.9499	0.1086	1.0585	0.2716	0.1038	0.3754		6,179.0267	6,179.0267	0.3949		6,188.8993

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.8 Earthwork 3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513		5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	3.1815	1.6854	4.8669	0.3435	1.5513	1.8949		5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.5184	0.0443	0.5627	0.1422	0.0424	0.1846		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.1479	1.0900e-003	0.1490	0.0392	1.0100e-003	0.0402		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.6663	0.0454	0.7117	0.1814	0.0434	0.2248		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.8 Earthwork 3 - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546			0.0000			0.0000
Off-Road	3.6177	44.1766	25.7961	0.0533		1.6854	1.6854		1.5513	1.5513	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596
Total	3.6177	44.1766	25.7961	0.0533	1.4317	1.6854	3.1171	0.1546	1.5513	1.7059	0.0000	5,263.8075	5,263.8075	1.6581		5,305.2596

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	0.2721	9.0940	1.3846	0.0238	0.3619	0.0443	0.4062	0.1037	0.0424	0.1461		2,497.6599	2,497.6599	0.1606		2,501.6758
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
Worker	0.0885	0.0768	0.6575	1.4400e-003	0.0965	1.0900e-003	0.0976	0.0266	1.0100e-003	0.0276		143.4985	143.4985	5.7800e-003		143.6429
Total	0.3607	9.1708	2.0421	0.0253	0.4583	0.0454	0.5037	0.1303	0.0434	0.1737		2,641.1583	2,641.1583	0.1664		2,645.3186

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.9 Utilities and Concrete 3 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833		3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	10.1734	0.0898	10.2632	2.5274	0.0859	2.6133		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	1.2815	9.4500e-003	1.2910	0.3399	8.7200e-003	0.3486		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	11.4549	0.0993	11.5542	2.8673	0.0946	2.9619		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.9 Utilities and Concrete 3 - 2019

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	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093
Total	2.0786	24.1847	14.2352	0.0331		0.9593	0.9593		0.8833	0.8833	0.0000	3,259.5107	3,259.5107	1.0240		3,285.1093

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	0.5516	18.4339	2.8066	0.0483	6.2071	0.0898	6.2969	1.5538	0.0859	1.6397		5,062.8241	5,062.8241	0.3256		5,070.9644
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
Worker	0.7672	0.6652	5.6982	0.0125	0.8360	9.4500e-003	0.8455	0.2306	8.7200e-003	0.2393		1,243.6532	1,243.6532	0.0501		1,244.9050
Total	1.3188	19.0991	8.5048	0.0608	7.0431	0.0993	7.1423	1.7844	0.0946	1.8790		6,306.4773	6,306.4773	0.3757		6,315.8693

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.9 Utilities and Concrete 3 - 2020

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	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027		3,188.5233	3,188.5233	1.0237		3,214.1148
Total	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027		3,188.5233	3,188.5233	1.0237		3,214.1148

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	0.4887	16.9845	2.5771	0.0478	1.1199	0.0660	1.1859	0.3051	0.0632	0.3683		5,007.2155	5,007.2155	0.3009		5,014.7370
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
Worker	0.6869	0.5798	4.9671	0.0121	1.2815	9.1200e-003	1.2906	0.3399	8.4100e-003	0.3483		1,204.3158	1,204.3158	0.0423		1,205.3736
Total	1.1756	17.5642	7.5442	0.0599	2.4014	0.0752	2.4765	0.6450	0.0716	0.7166		6,211.5312	6,211.5312	0.3432		6,220.1106

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.9 Utilities and Concrete 3 - 2020

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	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027	0.0000	3,188.5233	3,188.5233	1.0237		3,214.1148
Total	1.9636	22.3264	14.1111	0.0331		0.8716	0.8716		0.8027	0.8027	0.0000	3,188.5233	3,188.5233	1.0237		3,214.1148

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	0.4887	16.9845	2.5771	0.0478	0.7750	0.0660	0.8410	0.2205	0.0632	0.2836		5,007.2155	5,007.2155	0.3009		5,014.7370
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
Worker	0.6869	0.5798	4.9671	0.0121	0.8360	9.1200e-003	0.8451	0.2306	8.4100e-003	0.2390		1,204.3158	1,204.3158	0.0423		1,205.3736
Total	1.1756	17.5642	7.5442	0.0599	1.6110	0.0752	1.6861	0.4510	0.0716	0.5226		6,211.5312	6,211.5312	0.3432		6,220.1106

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.10 Paving-Electrical-Striping 3 - 2020

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	1.0406	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867		1,456.2767	1,456.2767	0.4710		1,468.0514
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8968	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867		1,456.2767	1,456.2767	0.4710		1,468.0514

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	0.5864	20.3814	3.0925	0.0573	1.2611	0.0792	1.3403	0.3458	0.0758	0.4216		6,008.6585	6,008.6585	0.3610		6,017.6844
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
Worker	0.0572	0.0483	0.4139	1.0100e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		100.3597	100.3597	3.5300e-003		100.4478
Total	0.6437	20.4297	3.5065	0.0584	1.3679	0.0800	1.4479	0.3742	0.0765	0.4507		6,109.0182	6,109.0182	0.3646		6,118.1322

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

3.10 Paving-Electrical-Striping 3 - 2020

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	1.0406	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867	0.0000	1,456.2767	1,456.2767	0.4710		1,468.0514
Paving	0.8562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8968	10.4814	10.4850	0.0150		0.6377	0.6377		0.5867	0.5867	0.0000	1,456.2767	1,456.2767	0.4710		1,468.0514

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	0.5864	20.3814	3.0925	0.0573	0.8803	0.0792	0.9595	0.2524	0.0758	0.3282		6,008.6585	6,008.6585	0.3610		6,017.6844
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
Worker	0.0572	0.0483	0.4139	1.0100e-003	0.0697	7.6000e-004	0.0704	0.0192	7.0000e-004	0.0199		100.3597	100.3597	3.5300e-003		100.4478
Total	0.6437	20.4297	3.5065	0.0584	0.9500	0.0800	1.0300	0.2716	0.0765	0.3481		6,109.0182	6,109.0182	0.3646		6,118.1322

4.0 Operational Detail - Mobile

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672
Other Non-Asphalt Surfaces	0.504118	0.034156	0.184227	0.115679	0.038681	0.007500	0.013254	0.090536	0.001365	0.001353	0.006129	0.001330	0.001672

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Unmitigated	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Total	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0707					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.5900e-003	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867
Total	0.2058	3.5000e-004	0.0382	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0813	0.0813	2.2000e-004		0.0867

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

River Crossing Marketplace - Off-Site Improvements - Shasta County, Winter

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
