

# Air Quality and Greenhouse Gas Modeling Results

# Construction and Operation (Annual Emissions)

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation  
Placer-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Parking Lot	157.00	Space	1.41	62,800.00	0
City Park	3.00	Acre	3.00	130,680.00	0
User Defined Recreational	1.00	User Defined Unit	2.00	87,120.00	0
User Defined Recreational	2.00	User Defined Unit	0.05	2,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	14			<b>Operational Year</b>	2020
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

Project Characteristics - Zip Code 96143; CO2, CH4, and N2O Intensity Factor for Liberty Utilities based on the non-baseload output emissions rate for CAMX in EPA's eGRID2014v2 values: [https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf)

Land Use - User Defined Recreational=Recreational Pier on Lake Tahoe; acres of land to be disturbed <2 acres from Chapter 4, assumed 2 acres total; construction of 1,000 sf solar powered administrative building plus 500 sf new seasonal non-motorized boat storage structure; new lawn and park space of approximately 3 acres from Chapter 4; construction of two "comfort stations" totaling approximately 2,000 sf from Chapter 4; reconfigured parking of 157 spaces.

Construction Phase - CalEEMod Default Schedule ratio utilized, averaged over 36 months commencing in 2018 (3 years) consistent with the projected timeline of pier construction. Date of building construction selected to reflect construction limitations in the Tahoe Basin from May 1-October 15.

Off-road Equipment -

Off-road Equipment - Assumed equipment to drill 27 pier pilings during site preparation

Vehicle Trips - Use of 8.67 miles for trip length consistent with the TRPA Travel Demand Forecasting model multiplied by the projected increase of 222 additional daily vehicle trips from F&P traffic study, project is projected to increase VMT by 1,925 per day (702,625 annual). User defined recreation values mimic General Office Building defaults

Demolition - Demolition of existing 4 stall "comfort station" of approximately 1,500 ft

Landscape Equipment - Assumes approximately 110 "snow days" given historical climate averages

Area Coating - Consistent with PCAPCD Rule 218

Energy Use - User defined recreational applies to "comfort Stations" and pier. Comfort Stations and pier would be expected to use lighting similar to that of parking lot. Would not have natural gas/electricity use (besides lighting)

Water And Wastewater - Increase in indoor water demand of 226,120 gallons per year and outdoor water demand of 488,000 gallons per year based on Table 5.3.10-1, "Existing and Future Water Demand at KBSRA." Increase in wastewater flows of 225,500 gallons per year based on discussion under impacts 5.3.10-3 and 5.3.10-4. User defined recreation would not have water or wastewater use/production.

Solid Waste - Uses CalEEMod defaults for City Park, General Office Building, and Parking Lot. Assumes a nominal (0.25 ton/year) of waste associated with comfort stations

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblAreaCoating	Area_EF_Parking	100	0
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	345.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	10/23/2020	11/17/2020
tblConstructionPhase	PhaseEndDate	6/5/2020	8/25/2020
tblConstructionPhase	PhaseEndDate	12/8/2017	6/11/2018
tblConstructionPhase	PhaseEndDate	3/23/2018	8/13/2018
tblConstructionPhase	PhaseEndDate	8/14/2020	10/6/2020
tblConstructionPhase	PhaseEndDate	1/12/2018	7/2/2018
tblConstructionPhase	PhaseStartDate	8/15/2020	10/7/2020
tblConstructionPhase	PhaseStartDate	3/24/2018	5/1/2019
tblConstructionPhase	PhaseStartDate	10/1/2017	5/1/2018
tblConstructionPhase	PhaseStartDate	1/13/2018	7/3/2018
tblConstructionPhase	PhaseStartDate	6/6/2020	8/26/2020
tblConstructionPhase	PhaseStartDate	12/9/2017	6/12/2018
tblEnergyUse	LightingElect	0.00	0.88
tblGrading	AcresOfGrading	15.00	10.00
tblLandscapeEquipment	NumberSnowDays	0	110
tblLandUse	BuildingSpaceSquareFeet	0.00	87,120.00
tblLandUse	BuildingSpaceSquareFeet	0.00	2,000.00
tblLandUse	LandUseSquareFeet	0.00	87,120.00
tblLandUse	LandUseSquareFeet	0.00	2,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	LotAcreage	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	0.25
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	0.00	28.00
tblVehicleTrips	PB_TP	0.00	6.00
tblVehicleTrips	PR_TP	0.00	66.00
tblVehicleTrips	ST_TR	22.75	40.00
tblVehicleTrips	ST_TR	2.46	15.00
tblVehicleTrips	ST_TR	0.00	15.00
tblVehicleTrips	SU_TR	16.74	36.00
tblVehicleTrips	SU_TR	1.05	15.00
tblVehicleTrips	SU_TR	0.00	15.00
tblVehicleTrips	WD_TR	1.89	4.00
tblVehicleTrips	WD_TR	11.03	66.00
tblVehicleTrips	WD_TR	0.00	66.00
tblWater	IndoorWaterUseRate	266,600.62	451,620.00
tblWater	OutdoorWaterUseRate	3,574,444.05	488,000.00
tblWater	OutdoorWaterUseRate	163,400.38	0.00

**2.0 Emissions Summary**

---

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1398	1.4633	0.8124		0.2395	0.0735	0.3130	0.1269	0.0680	0.1948			139.4608	0.0395	0.0000	140.4483
2019	0.2789	2.3946	2.0416		0.1514	0.1166	0.2680	0.0409	0.1097	0.1505			424.1715	0.0590	0.0000	425.6472
2020	0.6919	2.3624	2.1698		0.1542	0.1106	0.2649	0.0416	0.1039	0.1455			444.7702	0.0660	0.0000	446.4211
<b>Maximum</b>	<b>0.6919</b>	<b>2.3946</b>	<b>2.1698</b>		<b>0.2395</b>	<b>0.1166</b>	<b>0.3130</b>	<b>0.1269</b>	<b>0.1097</b>	<b>0.1948</b>			<b>444.7702</b>	<b>0.0660</b>	<b>0.0000</b>	<b>446.4211</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1398	1.4633	0.8124		0.2395	0.0735	0.3130	0.1269	0.0680	0.1948			139.4607	0.0395	0.0000	140.4481
2019	0.2789	2.3946	2.0416		0.1514	0.1166	0.2680	0.0409	0.1097	0.1505			424.1712	0.0590	0.0000	425.6469
2020	0.6919	2.3624	2.1698		0.1542	0.1106	0.2649	0.0416	0.1039	0.1455			444.7699	0.0660	0.0000	446.4208
<b>Maximum</b>	<b>0.6919</b>	<b>2.3946</b>	<b>2.1698</b>		<b>0.2395</b>	<b>0.1166</b>	<b>0.3130</b>	<b>0.1269</b>	<b>0.1097</b>	<b>0.1948</b>			<b>444.7699</b>	<b>0.0660</b>	<b>0.0000</b>	<b>446.4208</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	4-1-2018	6-30-2018	1.0548	1.0548
4	7-1-2018	9-30-2018	0.5483	0.5483
7	4-1-2019	6-30-2019	0.6635	0.6635
8	7-1-2019	9-30-2019	1.0006	1.0006
9	10-1-2019	12-31-2019	1.0070	1.0070
10	1-1-2020	3-31-2020	0.9078	0.9078
11	4-1-2020	6-30-2020	0.9026	0.9026
12	7-1-2020	9-30-2020	0.7569	0.7569
		Highest	1.0548	1.0548



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4014	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003
Energy	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			64.0420	2.4900e-003	3.0000e-004	64.1944
Mobile	0.1434	0.9905	1.6118		0.2804	6.1900e-003	0.2866	0.0782	5.8400e-003	0.0841			516.6336	0.0222	0.0000	517.1882
Waste						0.0000	0.0000		0.0000	0.0000			0.3877	0.0229	0.0000	0.9605
Water						0.0000	0.0000		0.0000	0.0000			1.8643	0.0148	3.6000e-004	2.3397
<b>Total</b>	<b>0.5450</b>	<b>0.9920</b>	<b>1.6155</b>		<b>0.2804</b>	<b>6.3100e-003</b>	<b>0.2867</b>	<b>0.0782</b>	<b>5.9600e-003</b>	<b>0.0842</b>			<b>582.9324</b>	<b>0.0624</b>	<b>6.6000e-004</b>	<b>584.6879</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4014	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003
Energy	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			64.0420	2.4900e-003	3.0000e-004	64.1944
Mobile	0.1434	0.9905	1.6118		0.2804	6.1900e-003	0.2866	0.0782	5.8400e-003	0.0841			516.6336	0.0222	0.0000	517.1882
Waste						0.0000	0.0000		0.0000	0.0000			0.3877	0.0229	0.0000	0.9605
Water						0.0000	0.0000		0.0000	0.0000			1.8643	0.0148	3.6000e-004	2.3397
<b>Total</b>	<b>0.5450</b>	<b>0.9920</b>	<b>1.6155</b>		<b>0.2804</b>	<b>6.3100e-003</b>	<b>0.2867</b>	<b>0.0782</b>	<b>5.9600e-003</b>	<b>0.0842</b>			<b>582.9324</b>	<b>0.0624</b>	<b>6.6000e-004</b>	<b>584.6879</b>

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

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2018	6/11/2018	5	30	
2	Site Preparation	Site Preparation	6/12/2018	7/2/2018	5	15	
3	Grading	Grading	7/3/2018	8/13/2018	5	30	
4	Building Construction	Building Construction	5/1/2019	8/25/2020	5	345	
5	Paving	Paving	8/26/2020	10/6/2020	5	30	
6	Architectural Coating	Architectural Coating	10/7/2020	11/17/2020	5	30	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.41**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,930; Non-Residential Outdoor: 45,310; Striped Parking Area: 3,768 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	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	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50

**Trips and VMT**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	7.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	47.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0558	0.5748	0.3346			0.0291	0.0291		0.0271	0.0271			52.6861	0.0145	0.0000	53.0490
<b>Total</b>	<b>0.0558</b>	<b>0.5748</b>	<b>0.3346</b>		<b>7.4000e-004</b>	<b>0.0291</b>	<b>0.0298</b>	<b>1.1000e-004</b>	<b>0.0271</b>	<b>0.0272</b>			<b>52.6861</b>	<b>0.0145</b>	<b>0.0000</b>	<b>53.0490</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.2 Demolition - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.1200e-003	1.8000e-004		6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005			0.2784	1.0000e-005	0.0000	0.2787
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
Worker	1.3100e-003	1.0400e-003	0.0105		2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.4996	7.0000e-005	0.0000	2.5014
<b>Total</b>	<b>1.3400e-003</b>	<b>2.1600e-003</b>	<b>0.0107</b>		<b>2.8100e-003</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>7.5000e-004</b>	<b>3.0000e-005</b>	<b>7.7000e-004</b>			<b>2.7780</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.7800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4000e-004	0.0000	7.4000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0558	0.5748	0.3346			0.0291	0.0291		0.0271	0.0271			52.6861	0.0145	0.0000	53.0489
<b>Total</b>	<b>0.0558</b>	<b>0.5748</b>	<b>0.3346</b>		<b>7.4000e-004</b>	<b>0.0291</b>	<b>0.0298</b>	<b>1.1000e-004</b>	<b>0.0271</b>	<b>0.0272</b>			<b>52.6861</b>	<b>0.0145</b>	<b>0.0000</b>	<b>53.0489</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.2 Demolition - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.1200e-003	1.8000e-004		6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005			0.2784	1.0000e-005	0.0000	0.2787
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
Worker	1.3100e-003	1.0400e-003	0.0105		2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.4996	7.0000e-005	0.0000	2.5014
<b>Total</b>	<b>1.3400e-003</b>	<b>2.1600e-003</b>	<b>0.0107</b>		<b>2.8100e-003</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>7.5000e-004</b>	<b>3.0000e-005</b>	<b>7.7000e-004</b>			<b>2.7780</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.7800</b>

**3.3 Site Preparation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1355	0.0000	0.1355	0.0745	0.0000	0.0745			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0387	0.4244	0.2000			0.0211	0.0211		0.0194	0.0194			38.9205	0.0121	0.0000	39.2234
<b>Total</b>	<b>0.0387</b>	<b>0.4244</b>	<b>0.2000</b>		<b>0.1355</b>	<b>0.0211</b>	<b>0.1566</b>	<b>0.0745</b>	<b>0.0194</b>	<b>0.0939</b>			<b>38.9205</b>	<b>0.0121</b>	<b>0.0000</b>	<b>39.2234</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.3 Site Preparation - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.0100e-003	7.9000e-004	8.0600e-003		2.1100e-003	1.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004			1.9164	5.0000e-005	0.0000	1.9177
<b>Total</b>	<b>1.0100e-003</b>	<b>7.9000e-004</b>	<b>8.0600e-003</b>		<b>2.1100e-003</b>	<b>1.0000e-005</b>	<b>2.1200e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>			<b>1.9164</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.9177</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1355	0.0000	0.1355	0.0745	0.0000	0.0745			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0387	0.4244	0.2000			0.0211	0.0211		0.0194	0.0194			38.9204	0.0121	0.0000	39.2233
<b>Total</b>	<b>0.0387</b>	<b>0.4244</b>	<b>0.2000</b>		<b>0.1355</b>	<b>0.0211</b>	<b>0.1566</b>	<b>0.0745</b>	<b>0.0194</b>	<b>0.0939</b>			<b>38.9204</b>	<b>0.0121</b>	<b>0.0000</b>	<b>39.2233</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.3 Site Preparation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.0100e-003	7.9000e-004	8.0600e-003		2.1100e-003	1.0000e-005	2.1200e-003	5.6000e-004	1.0000e-005	5.7000e-004			1.9164	5.0000e-005	0.0000	1.9177
<b>Total</b>	<b>1.0100e-003</b>	<b>7.9000e-004</b>	<b>8.0600e-003</b>		<b>2.1100e-003</b>	<b>1.0000e-005</b>	<b>2.1200e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>			<b>1.9164</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.9177</b>

**3.4 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4601	0.2487			0.0233	0.0233		0.0214	0.0214			40.6603	0.0127	0.0000	40.9768
<b>Total</b>	<b>0.0416</b>	<b>0.4601</b>	<b>0.2487</b>		<b>0.0956</b>	<b>0.0233</b>	<b>0.1189</b>	<b>0.0502</b>	<b>0.0214</b>	<b>0.0716</b>			<b>40.6603</b>	<b>0.0127</b>	<b>0.0000</b>	<b>40.9768</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.4 Grading - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.3100e-003	1.0400e-003	0.0105		2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.4996	7.0000e-005	0.0000	2.5014
<b>Total</b>	<b>1.3100e-003</b>	<b>1.0400e-003</b>	<b>0.0105</b>		<b>2.7500e-003</b>	<b>2.0000e-005</b>	<b>2.7700e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>			<b>2.4996</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5014</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4601	0.2487			0.0233	0.0233		0.0214	0.0214			40.6603	0.0127	0.0000	40.9767
<b>Total</b>	<b>0.0416</b>	<b>0.4601</b>	<b>0.2487</b>		<b>0.0956</b>	<b>0.0233</b>	<b>0.1189</b>	<b>0.0502</b>	<b>0.0214</b>	<b>0.0716</b>			<b>40.6603</b>	<b>0.0127</b>	<b>0.0000</b>	<b>40.9767</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.4 Grading - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.3100e-003	1.0400e-003	0.0105		2.7500e-003	2.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.4996	7.0000e-005	0.0000	2.5014
<b>Total</b>	<b>1.3100e-003</b>	<b>1.0400e-003</b>	<b>0.0105</b>		<b>2.7500e-003</b>	<b>2.0000e-005</b>	<b>2.7700e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>			<b>2.4996</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5014</b>

**3.5 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	tons/yr										MT/yr					
Off-Road	0.2066	1.8444	1.5018			0.1129	0.1129		0.1061	0.1061			205.7162	0.0501	0.0000	206.9690
<b>Total</b>	<b>0.2066</b>	<b>1.8444</b>	<b>1.5018</b>			<b>0.1129</b>	<b>0.1129</b>		<b>0.1061</b>	<b>0.1061</b>			<b>205.7162</b>	<b>0.0501</b>	<b>0.0000</b>	<b>206.9690</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.5 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0172	0.5080	0.1052		0.0243	2.9300e-003	0.0272	7.0300e-003	2.8000e-003	9.8400e-003			106.2492	5.9700e-003	0.0000	106.3985
Worker	0.0550	0.0421	0.4346		0.1271	8.3000e-004	0.1280	0.0338	7.6000e-004	0.0346			112.2061	2.9400e-003	0.0000	112.2796
<b>Total</b>	<b>0.0722</b>	<b>0.5502</b>	<b>0.5398</b>		<b>0.1514</b>	<b>3.7600e-003</b>	<b>0.1552</b>	<b>0.0409</b>	<b>3.5600e-003</b>	<b>0.0444</b>			<b>218.4553</b>	<b>8.9100e-003</b>	<b>0.0000</b>	<b>218.6782</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2066	1.8444	1.5018			0.1129	0.1129		0.1061	0.1061			205.7159	0.0501	0.0000	206.9688
<b>Total</b>	<b>0.2066</b>	<b>1.8444</b>	<b>1.5018</b>			<b>0.1129</b>	<b>0.1129</b>		<b>0.1061</b>	<b>0.1061</b>			<b>205.7159</b>	<b>0.0501</b>	<b>0.0000</b>	<b>206.9688</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.5 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0172	0.5080	0.1052		0.0243	2.9300e-003	0.0272	7.0300e-003	2.8000e-003	9.8400e-003			106.2492	5.9700e-003	0.0000	106.3985
Worker	0.0550	0.0421	0.4346		0.1271	8.3000e-004	0.1280	0.0338	7.6000e-004	0.0346			112.2061	2.9400e-003	0.0000	112.2796
<b>Total</b>	<b>0.0722</b>	<b>0.5502</b>	<b>0.5398</b>		<b>0.1514</b>	<b>3.7600e-003</b>	<b>0.1552</b>	<b>0.0409</b>	<b>3.5600e-003</b>	<b>0.0444</b>			<b>218.4553</b>	<b>8.9100e-003</b>	<b>0.0000</b>	<b>218.6782</b>

**3.5 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	tons/yr										MT/yr					
Off-Road	0.1802	1.6308	1.4321			0.0950	0.0950		0.0893	0.0893			196.8685	0.0480	0.0000	198.0692
<b>Total</b>	<b>0.1802</b>	<b>1.6308</b>	<b>1.4321</b>			<b>0.0950</b>	<b>0.0950</b>		<b>0.0893</b>	<b>0.0893</b>			<b>196.8685</b>	<b>0.0480</b>	<b>0.0000</b>	<b>198.0692</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.5 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.4570	0.0900		0.0236	1.9000e-003	0.0255	6.8300e-003	1.8100e-003	8.6500e-003			102.4156	5.3600e-003	0.0000	102.5495
Worker	0.0491	0.0362	0.3786		0.1235	7.9000e-004	0.1243	0.0329	7.2000e-004	0.0336			105.5117	2.4900e-003	0.0000	105.5739
<b>Total</b>	<b>0.0630</b>	<b>0.4932</b>	<b>0.4685</b>		<b>0.1471</b>	<b>2.6900e-003</b>	<b>0.1498</b>	<b>0.0397</b>	<b>2.5300e-003</b>	<b>0.0422</b>			<b>207.9272</b>	<b>7.8500e-003</b>	<b>0.0000</b>	<b>208.1235</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1802	1.6308	1.4321			0.0950	0.0950		0.0893	0.0893			196.8683	0.0480	0.0000	198.0690
<b>Total</b>	<b>0.1802</b>	<b>1.6308</b>	<b>1.4321</b>			<b>0.0950</b>	<b>0.0950</b>		<b>0.0893</b>	<b>0.0893</b>			<b>196.8683</b>	<b>0.0480</b>	<b>0.0000</b>	<b>198.0690</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.5 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.4570	0.0900		0.0236	1.9000e-003	0.0255	6.8300e-003	1.8100e-003	8.6500e-003			102.4156	5.3600e-003	0.0000	102.5495
Worker	0.0491	0.0362	0.3786		0.1235	7.9000e-004	0.1243	0.0329	7.2000e-004	0.0336			105.5117	2.4900e-003	0.0000	105.5739
<b>Total</b>	<b>0.0630</b>	<b>0.4932</b>	<b>0.4685</b>		<b>0.1471</b>	<b>2.6900e-003</b>	<b>0.1498</b>	<b>0.0397</b>	<b>2.5300e-003</b>	<b>0.0422</b>			<b>207.9272</b>	<b>7.8500e-003</b>	<b>0.0000</b>	<b>208.1235</b>

**3.6 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	tons/yr										MT/yr					
Off-Road	0.0204	0.2110	0.2198			0.0113	0.0113		0.0104	0.0104			30.0423	9.7200e-003	0.0000	30.2852
Paving	1.8500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0222</b>	<b>0.2110</b>	<b>0.2198</b>			<b>0.0113</b>	<b>0.0113</b>		<b>0.0104</b>	<b>0.0104</b>			<b>30.0423</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2852</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.0900e-003	8.1000e-004	8.4200e-003		2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.3470	6.0000e-005	0.0000	2.3484
<b>Total</b>	<b>1.0900e-003</b>	<b>8.1000e-004</b>	<b>8.4200e-003</b>		<b>2.7500e-003</b>	<b>2.0000e-005</b>	<b>2.7600e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>			<b>2.3470</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.3484</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.2110	0.2198			0.0113	0.0113		0.0104	0.0104			30.0423	9.7200e-003	0.0000	30.2852
Paving	1.8500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0222</b>	<b>0.2110</b>	<b>0.2198</b>			<b>0.0113</b>	<b>0.0113</b>		<b>0.0104</b>	<b>0.0104</b>			<b>30.0423</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2852</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.6 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.0900e-003	8.1000e-004	8.4200e-003		2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004			2.3470	6.0000e-005	0.0000	2.3484
<b>Total</b>	<b>1.0900e-003</b>	<b>8.1000e-004</b>	<b>8.4200e-003</b>		<b>2.7500e-003</b>	<b>2.0000e-005</b>	<b>2.7600e-003</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>			<b>2.3470</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.3484</b>

**3.7 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	tons/yr										MT/yr					
Archit. Coating	0.4200					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0253	0.0275			1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003			3.8299	3.0000e-004	0.0000	3.8373
<b>Total</b>	<b>0.4237</b>	<b>0.0253</b>	<b>0.0275</b>			<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>			<b>3.8299</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.8373</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.7500e-003	1.2900e-003	0.0135		4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003			3.7552	9.0000e-005	0.0000	3.7575
<b>Total</b>	<b>1.7500e-003</b>	<b>1.2900e-003</b>	<b>0.0135</b>		<b>4.4000e-003</b>	<b>3.0000e-005</b>	<b>4.4200e-003</b>	<b>1.1700e-003</b>	<b>3.0000e-005</b>	<b>1.2000e-003</b>			<b>3.7552</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7575</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4200					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0253	0.0275			1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003			3.8299	3.0000e-004	0.0000	3.8373
<b>Total</b>	<b>0.4237</b>	<b>0.0253</b>	<b>0.0275</b>			<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>			<b>3.8299</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.8373</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**3.7 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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
Worker	1.7500e-003	1.2900e-003	0.0135		4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003			3.7552	9.0000e-005	0.0000	3.7575
<b>Total</b>	<b>1.7500e-003</b>	<b>1.2900e-003</b>	<b>0.0135</b>		<b>4.4000e-003</b>	<b>3.0000e-005</b>	<b>4.4200e-003</b>	<b>1.1700e-003</b>	<b>3.0000e-005</b>	<b>1.2000e-003</b>			<b>3.7552</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7575</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1434	0.9905	1.6118		0.2804	6.1900e-003	0.2866	0.0782	5.8400e-003	0.0841			516.6336	0.0222	0.0000	517.1882
Unmitigated	0.1434	0.9905	1.6118		0.2804	6.1900e-003	0.2866	0.0782	5.8400e-003	0.0841			516.6336	0.0222	0.0000	517.1882

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	12.00	120.00	108.00	101,467	101,467
General Office Building	99.00	22.50	22.50	212,978	212,978
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	66.00	15.00	15.00	126,833	126,833
User Defined Recreational	132.00	30.00	30.00	253,667	253,667
Total	309.00	187.50	175.50	694,945	694,945

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
Parking Lot	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
City Park	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

**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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			62.4707	2.4600e-003	2.7000e-004	62.6137
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			62.4707	2.4600e-003	2.7000e-004	62.6137
NaturalGas Mitigated	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			1.5713	3.0000e-005	3.0000e-005	1.5806
NaturalGas Unmitigated	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			1.5713	3.0000e-005	3.0000e-005	1.5806

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**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	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	29445	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			1.5713	3.0000e-005	3.0000e-005	1.5806
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6000e-004</b>	<b>1.4400e-003</b>	<b>1.2100e-003</b>			<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>			<b>1.5713</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.5806</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**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	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	29445	1.6000e-004	1.4400e-003	1.2100e-003			1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004			1.5713	3.0000e-005	3.0000e-005	1.5806
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6000e-004</b>	<b>1.4400e-003</b>	<b>1.2100e-003</b>			<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>			<b>1.5713</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.5806</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	17010	7.0513	2.8000e-004	3.0000e-005	7.0674
Parking Lot	55264	22.9090	9.0000e-004	1.0000e-004	22.9615
User Defined Recreational	1760	0.7296	3.0000e-005	0.0000	0.7313
User Defined Recreational	76665.6	31.7808	1.2500e-003	1.4000e-004	31.8536
<b>Total</b>		<b>62.4707</b>	<b>2.4600e-003</b>	<b>2.7000e-004</b>	<b>62.6137</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	17010	7.0513	2.8000e-004	3.0000e-005	7.0674
Parking Lot	55264	22.9090	9.0000e-004	1.0000e-004	22.9615
User Defined Recreational	1760	0.7296	3.0000e-005	0.0000	0.7313
User Defined Recreational	76665.6	31.7808	1.2500e-003	1.4000e-004	31.8536
<b>Total</b>		<b>62.4707</b>	<b>2.4600e-003</b>	<b>2.7000e-004</b>	<b>62.6137</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4014	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003
Unmitigated	0.4014	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0420					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3592					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003
<b>Total</b>	<b>0.4014</b>	<b>2.0000e-005</b>	<b>2.4500e-003</b>			<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.7400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.0500e-003</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0420					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3592					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.7400e-003	1.0000e-005	0.0000	5.0500e-003
<b>Total</b>	<b>0.4014</b>	<b>2.0000e-005</b>	<b>2.4500e-003</b>			<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.7400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.0500e-003</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.8643	0.0148	3.6000e-004	2.3397
Unmitigated	1.8643	0.0148	3.6000e-004	2.3397

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.488	0.7080	3.0000e-005	0.0000	0.7097
General Office Building	0.45162 / 0	1.1563	0.0148	3.5000e-004	1.6301
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.8643</b>	<b>0.0148</b>	<b>3.5000e-004</b>	<b>2.3397</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.488	0.7080	3.0000e-005	0.0000	0.7097
General Office Building	0.45162 / 0	1.1563	0.0148	3.5000e-004	1.6301
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.8643</b>	<b>0.0148</b>	<b>3.5000e-004</b>	<b>2.3397</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3877	0.0229	0.0000	0.9605
Unmitigated	0.3877	0.0229	0.0000	0.9605

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
General Office Building	1.4	0.2842	0.0168	0.0000	0.7041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0.25	0.0508	3.0000e-003	0.0000	0.1257
<b>Total</b>		<b>0.3877</b>	<b>0.0229</b>	<b>0.0000</b>	<b>0.9605</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
General Office Building	1.4	0.2842	0.0168	0.0000	0.7041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0.25	0.0508	3.0000e-003	0.0000	0.1257
<b>Total</b>		<b>0.3877</b>	<b>0.0229</b>	<b>0.0000</b>	<b>0.9605</b>

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Annual

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

## 11.0 Vegetation

---



# Construction and Operation (Summer Emissions)

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation  
Placer-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Parking Lot	157.00	Space	1.41	62,800.00	0
City Park	3.00	Acre	3.00	130,680.00	0
User Defined Recreational	1.00	User Defined Unit	2.00	87,120.00	0
User Defined Recreational	2.00	User Defined Unit	0.05	2,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	14			<b>Operational Year</b>	2020
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

Project Characteristics - Zip Code 96143; CO2, CH4, and N2O Intensity Factor for Liberty Utilities based on the non-baseload output emissions rate for CAMX in EPA's eGRID2014v2 values: [https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf)

Land Use - User Defined Recreational=Recreational Pier on Lake Tahoe; acres of land to be disturbed <2 acres from Chapter 4, assumed 2 acres total; construction of 1,000 sf solar powered administrative building plus 500 sf new seasonal non-motorized boat storage structure; new lawn and park space of approximately 3 acres from Chapter 4; construction of two "comfort stations" totaling approximately 2,000 sf from Chapter 4; reconfigured parking of 157 spaces.

Construction Phase - CalEEMod Default Schedule ratio utilized, averaged over 36 months commencing in 2018 (3 years) consistent with the projected timeline of pier construction. Date of building construction selected to reflect construction limitations in the Tahoe Basin from May 1-October 15.

Off-road Equipment -

Off-road Equipment - Assumed equipment to drill 27 pier pilings during site preparation

Vehicle Trips - Use of 8.67 miles for trip length consistent with the TRPA Travel Demand Forecasting model multiplied by the projected increase of 222 additional daily vehicle trips from F&P traffic study, project is projected to increase VMT by 1,925 per day (702,625 annual). User defined recreation values mimic General

Demolition - Demolition of existing 4 stall "comfort station" of approximately 1,500 ft

Landscape Equipment - Assumes approximately 110 "snow days" given historical climate averages

Area Coating - Consistent with PCAPCD Rule 218

Energy Use - User defined recreational applies to "comfort Stations" and pier. Comfort Stations and pier would be expected to use lighting similar to that of parking lot. Would not have natural gas/electricity use (besides lighting)

Water And Wastewater - Increase in indoor water demand of 226,120 gallons per year and outdoor water demand of 488,000 gallons per year based on Table 5.3.10-1, "Existing and Future Water Demand at KBSRA." Increase in wastewater flows of 225,500 gallons per year based on discussion under impacts 5.3.10-3 and 5.3.10-4. User defined recreation would not have water or wastewater use/production.

Solid Waste - Uses CalEEMod defaults for City Park, General Office Building, and Parking Lot. Assumes a nominal (0.25 ton/year) of waste associated with comfort stations

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblAreaCoating	Area_EF_Parking	100	0
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	345.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	10/23/2020	11/17/2020
tblConstructionPhase	PhaseEndDate	6/5/2020	8/25/2020
tblConstructionPhase	PhaseEndDate	12/8/2017	6/11/2018
tblConstructionPhase	PhaseEndDate	3/23/2018	8/13/2018
tblConstructionPhase	PhaseEndDate	8/14/2020	10/6/2020
tblConstructionPhase	PhaseEndDate	1/12/2018	7/2/2018
tblConstructionPhase	PhaseStartDate	8/15/2020	10/7/2020
tblConstructionPhase	PhaseStartDate	3/24/2018	5/1/2019
tblConstructionPhase	PhaseStartDate	10/1/2017	5/1/2018
tblConstructionPhase	PhaseStartDate	1/13/2018	7/3/2018
tblConstructionPhase	PhaseStartDate	6/6/2020	8/26/2020
tblConstructionPhase	PhaseStartDate	12/9/2017	6/12/2018
tblEnergyUse	LightingElect	0.00	0.88
tblGrading	AcresOfGrading	15.00	10.00
tblLandscapeEquipment	NumberSnowDays	0	110
tblLandUse	BuildingSpaceSquareFeet	0.00	87,120.00
tblLandUse	BuildingSpaceSquareFeet	0.00	2,000.00
tblLandUse	LandUseSquareFeet	0.00	87,120.00
tblLandUse	LandUseSquareFeet	0.00	2,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	LotAcreage	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004

## Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	0.25
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	0.00	28.00
tblVehicleTrips	PB_TP	0.00	6.00
tblVehicleTrips	PR_TP	0.00	66.00
tblVehicleTrips	ST_TR	22.75	40.00
tblVehicleTrips	ST_TR	2.46	15.00
tblVehicleTrips	ST_TR	0.00	15.00
tblVehicleTrips	SU_TR	16.74	36.00
tblVehicleTrips	SU_TR	1.05	15.00
tblVehicleTrips	SU_TR	0.00	15.00
tblVehicleTrips	WD_TR	1.89	4.00
tblVehicleTrips	WD_TR	11.03	66.00
tblVehicleTrips	WD_TR	0.00	66.00
tblWater	IndoorWaterUseRate	266,600.62	451,620.00
tblWater	OutdoorWaterUseRate	3,574,444.05	488,000.00
tblWater	OutdoorWaterUseRate	163,400.38	0.00

## 2.0 Emissions Summary

---

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**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					
2018	5.3103	56.6840	27.8890		18.3600	2.8159	21.1759	10.0086	2.5906	12.5992			6,029.1148	1.7897	0.0000	6,073.8570
2019	3.2347	27.2196	23.9724		1.8079	1.3324	3.1404	0.4860	1.2531	1.7391			5,500.3105	0.7433	0.0000	5,518.8929
2020	28.3698	24.8660	22.9596		1.8079	1.1483	2.9563	0.4860	1.0799	1.5659			5,401.9499	0.7242	0.0000	5,420.0553
<b>Maximum</b>	<b>28.3698</b>	<b>56.6840</b>	<b>27.8890</b>		<b>18.3600</b>	<b>2.8159</b>	<b>21.1759</b>	<b>10.0086</b>	<b>2.5906</b>	<b>12.5992</b>			<b>6,029.1148</b>	<b>1.7897</b>	<b>0.0000</b>	<b>6,073.8570</b>

**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					
2018	5.3103	56.6840	27.8890		18.3600	2.8159	21.1759	10.0086	2.5906	12.5992			6,029.1148	1.7897	0.0000	6,073.8569
2019	3.2347	27.2196	23.9724		1.8079	1.3324	3.1404	0.4860	1.2531	1.7391			5,500.3105	0.7433	0.0000	5,518.8929
2020	28.3698	24.8660	22.9596		1.8079	1.1483	2.9563	0.4860	1.0799	1.5659			5,401.9499	0.7242	0.0000	5,420.0553
<b>Maximum</b>	<b>28.3698</b>	<b>56.6840</b>	<b>27.8890</b>		<b>18.3600</b>	<b>2.8159</b>	<b>21.1759</b>	<b>10.0086</b>	<b>2.5906</b>	<b>12.5992</b>			<b>6,029.1148</b>	<b>1.7897</b>	<b>0.0000</b>	<b>6,073.8569</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Energy	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
Mobile	1.3605	7.5944	13.5387		2.4128	0.0486	2.4614	0.6666	0.0459	0.7125			4,793.1262	0.1926		4,797.9407
<b>Total</b>	<b>3.5614</b>	<b>7.6024</b>	<b>13.5623</b>		<b>2.4128</b>	<b>0.0493</b>	<b>2.4621</b>	<b>0.6666</b>	<b>0.0465</b>	<b>0.7131</b>			<b>4,802.6529</b>	<b>0.1929</b>	<b>1.7000e-004</b>	<b>4,807.5263</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Energy	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
Mobile	1.3605	7.5944	13.5387		2.4128	0.0486	2.4614	0.6666	0.0459	0.7125			4,793.1262	0.1926		4,797.9407
<b>Total</b>	<b>3.5614</b>	<b>7.6024</b>	<b>13.5623</b>		<b>2.4128</b>	<b>0.0493</b>	<b>2.4621</b>	<b>0.6666</b>	<b>0.0465</b>	<b>0.7131</b>			<b>4,802.6529</b>	<b>0.1929</b>	<b>1.7000e-004</b>	<b>4,807.5263</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	Demolition	Demolition	5/1/2018	6/11/2018	5	30	
2	Site Preparation	Site Preparation	6/12/2018	7/2/2018	5	15	
3	Grading	Grading	7/3/2018	8/13/2018	5	30	
4	Building Construction	Building Construction	5/1/2019	8/25/2020	5	345	
5	Paving	Paving	8/26/2020	10/6/2020	5	30	
6	Architectural Coating	Architectural Coating	10/7/2020	11/17/2020	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,930; Non-Residential Outdoor: 45,310; Striped Parking Area: 3,768 (Architectural Coating – sqft)

#### OffRoad Equipment

## Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	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	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50

**Trips and VMT**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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
Demolition	6	15.00	0.00	7.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	47.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2018**

**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					0.0492	0.0000	0.0492	7.4500e-003	0.0000	7.4500e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040			1.9386	1.9386		1.8048	1.8048			3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>		<b>0.0492</b>	<b>1.9386</b>	<b>1.9878</b>	<b>7.4500e-003</b>	<b>1.8048</b>	<b>1.8123</b>			<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.2 Demolition - 2018**

**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	2.2500e-003	0.0727	0.0114		4.0800e-003	3.5000e-004	4.4300e-003	1.1200e-003	3.3000e-004	1.4500e-003			20.6562	7.1000e-004		20.6741
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
Worker	0.0947	0.0607	0.8017		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			201.3810	5.7800e-003		201.5256
<b>Total</b>	<b>0.0969</b>	<b>0.1334</b>	<b>0.8131</b>		<b>0.1957</b>	<b>1.5500e-003</b>	<b>0.1972</b>	<b>0.0519</b>	<b>1.4400e-003</b>	<b>0.0534</b>			<b>222.0372</b>	<b>6.4900e-003</b>		<b>222.1996</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0492	0.0000	0.0492	7.4500e-003	0.0000	7.4500e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040			1.9386	1.9386		1.8048	1.8048			3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>		<b>0.0492</b>	<b>1.9386</b>	<b>1.9878</b>	<b>7.4500e-003</b>	<b>1.8048</b>	<b>1.8123</b>			<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.2 Demolition - 2018**

**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	2.2500e-003	0.0727	0.0114		4.0800e-003	3.5000e-004	4.4300e-003	1.1200e-003	3.3000e-004	1.4500e-003			20.6562	7.1000e-004		20.6741
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
Worker	0.0947	0.0607	0.8017		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			201.3810	5.7800e-003		201.5256
<b>Total</b>	<b>0.0969</b>	<b>0.1334</b>	<b>0.8131</b>		<b>0.1957</b>	<b>1.5500e-003</b>	<b>0.1972</b>	<b>0.0519</b>	<b>1.4400e-003</b>	<b>0.0534</b>			<b>222.0372</b>	<b>6.4900e-003</b>		<b>222.1996</b>

**3.3 Site Preparation - 2018**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.1651	56.5910	26.6597			2.8141	2.8141		2.5889	2.5889			5,720.3307	1.7808		5,764.8511
<b>Total</b>	<b>5.1651</b>	<b>56.5910</b>	<b>26.6597</b>		<b>18.0663</b>	<b>2.8141</b>	<b>20.8803</b>	<b>9.9307</b>	<b>2.5889</b>	<b>12.5196</b>			<b>5,720.3307</b>	<b>1.7808</b>		<b>5,764.8511</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.3 Site Preparation - 2018**

**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
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
Worker	0.1452	0.0930	1.2293		0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796			308.7841	8.8700e-003		309.0058
<b>Total</b>	<b>0.1452</b>	<b>0.0930</b>	<b>1.2293</b>		<b>0.2938</b>	<b>1.8400e-003</b>	<b>0.2956</b>	<b>0.0779</b>	<b>1.7000e-003</b>	<b>0.0796</b>			<b>308.7841</b>	<b>8.8700e-003</b>		<b>309.0058</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.1651	56.5910	26.6597			2.8141	2.8141		2.5889	2.5889			5,720.3307	1.7808		5,764.8511
<b>Total</b>	<b>5.1651</b>	<b>56.5910</b>	<b>26.6597</b>		<b>18.0663</b>	<b>2.8141</b>	<b>20.8803</b>	<b>9.9307</b>	<b>2.5889</b>	<b>12.5196</b>			<b>5,720.3307</b>	<b>1.7808</b>		<b>5,764.8511</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.3 Site Preparation - 2018**

**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
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
Worker	0.1452	0.0930	1.2293		0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796			308.7841	8.8700e-003		309.0058
<b>Total</b>	<b>0.1452</b>	<b>0.0930</b>	<b>1.2293</b>		<b>0.2938</b>	<b>1.8400e-003</b>	<b>0.2956</b>	<b>0.0779</b>	<b>1.7000e-003</b>	<b>0.0796</b>			<b>308.7841</b>	<b>8.8700e-003</b>		<b>309.0058</b>

**3.4 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770			1.5513	1.5513		1.4272	1.4272			2,988.0216	0.9302		3,011.2769
<b>Total</b>	<b>2.7733</b>	<b>30.6725</b>	<b>16.5770</b>		<b>6.3756</b>	<b>1.5513</b>	<b>7.9269</b>	<b>3.3484</b>	<b>1.4272</b>	<b>4.7756</b>			<b>2,988.0216</b>	<b>0.9302</b>		<b>3,011.2769</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.4 Grading - 2018**

**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
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
Worker	0.0947	0.0607	0.8017		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			201.3810	5.7800e-003		201.5256
<b>Total</b>	<b>0.0947</b>	<b>0.0607</b>	<b>0.8017</b>		<b>0.1916</b>	<b>1.2000e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.1100e-003</b>	<b>0.0519</b>			<b>201.3810</b>	<b>5.7800e-003</b>		<b>201.5256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770			1.5513	1.5513		1.4272	1.4272			2,988.0216	0.9302		3,011.2769
<b>Total</b>	<b>2.7733</b>	<b>30.6725</b>	<b>16.5770</b>		<b>6.3756</b>	<b>1.5513</b>	<b>7.9269</b>	<b>3.3484</b>	<b>1.4272</b>	<b>4.7756</b>			<b>2,988.0216</b>	<b>0.9302</b>		<b>3,011.2769</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.4 Grading - 2018**

**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
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
Worker	0.0947	0.0607	0.8017		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			201.3810	5.7800e-003		201.5256
<b>Total</b>	<b>0.0947</b>	<b>0.0607</b>	<b>0.8017</b>		<b>0.1916</b>	<b>1.2000e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.1100e-003</b>	<b>0.0519</b>			<b>201.3810</b>	<b>5.7800e-003</b>		<b>201.5256</b>

**3.5 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			1.2899	1.2899		1.2127	1.2127			2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>			<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>			<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.5 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
Vendor	0.1921	5.7174	1.0907		0.2879	0.0331	0.3211	0.0829	0.0317	0.1146			1,358.9113	0.0711		1,360.6885
Worker	0.6814	0.4233	5.7179		1.5200	9.4400e-003	1.5294	0.4031	8.7000e-003	0.4118			1,549.8190	0.0409		1,550.8409
<b>Total</b>	<b>0.8735</b>	<b>6.1408</b>	<b>6.8086</b>		<b>1.8079</b>	<b>0.0426</b>	<b>1.8505</b>	<b>0.4860</b>	<b>0.0404</b>	<b>0.5264</b>			<b>2,908.7303</b>	<b>0.1120</b>		<b>2,911.5294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638			1.2899	1.2899		1.2127	1.2127			2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>			<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>			<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.5 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
Vendor	0.1921	5.7174	1.0907		0.2879	0.0331	0.3211	0.0829	0.0317	0.1146			1,358.9113	0.0711		1,360.6885
Worker	0.6814	0.4233	5.7179		1.5200	9.4400e-003	1.5294	0.4031	8.7000e-003	0.4118			1,549.8190	0.0409		1,550.8409
<b>Total</b>	<b>0.8735</b>	<b>6.1408</b>	<b>6.8086</b>		<b>1.8079</b>	<b>0.0426</b>	<b>1.8505</b>	<b>0.4860</b>	<b>0.0404</b>	<b>0.5264</b>			<b>2,908.7303</b>	<b>0.1120</b>		<b>2,911.5294</b>

**3.5 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			1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>			<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>			<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.5 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
Vendor	0.1599	5.3049	0.9577		0.2879	0.0220	0.3100	0.0829	0.0211	0.1040			1,348.6010	0.0656		1,350.2402
Worker	0.6251	0.3751	5.1533		1.5200	9.2500e-003	1.5292	0.4031	8.5200e-003	0.4116			1,500.2859	0.0358		1,501.1806
<b>Total</b>	<b>0.7850</b>	<b>5.6799</b>	<b>6.1111</b>		<b>1.8079</b>	<b>0.0313</b>	<b>1.8392</b>	<b>0.4860</b>	<b>0.0296</b>	<b>0.5156</b>			<b>2,848.8869</b>	<b>0.1014</b>		<b>2,851.4208</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>			<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>			<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.5 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
Vendor	0.1599	5.3049	0.9577		0.2879	0.0220	0.3100	0.0829	0.0211	0.1040			1,348.6010	0.0656		1,350.2402
Worker	0.6251	0.3751	5.1533		1.5200	9.2500e-003	1.5292	0.4031	8.5200e-003	0.4116			1,500.2859	0.0358		1,501.1806
<b>Total</b>	<b>0.7850</b>	<b>5.6799</b>	<b>6.1111</b>		<b>1.8079</b>	<b>0.0313</b>	<b>1.8392</b>	<b>0.4860</b>	<b>0.0296</b>	<b>0.5156</b>			<b>2,848.8869</b>	<b>0.1014</b>		<b>2,851.4208</b>

**3.6 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	1.3566	14.0656	14.6521			0.7528	0.7528		0.6926	0.6926			2,207.7334	0.7140		2,225.5841
Paving	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4797</b>	<b>14.0656</b>	<b>14.6521</b>			<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>			<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.6 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0788	0.0473	0.6496		0.1916	1.1700e-003	0.1928	0.0508	1.0700e-003	0.0519			189.1117	4.5100e-003		189.2244
<b>Total</b>	<b>0.0788</b>	<b>0.0473</b>	<b>0.6496</b>		<b>0.1916</b>	<b>1.1700e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>			<b>189.1117</b>	<b>4.5100e-003</b>		<b>189.2244</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521			0.7528	0.7528		0.6926	0.6926			2,207.7334	0.7140		2,225.5841
Paving	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4797</b>	<b>14.0656</b>	<b>14.6521</b>			<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>			<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.6 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0788	0.0473	0.6496		0.1916	1.1700e-003	0.1928	0.0508	1.0700e-003	0.0519			189.1117	4.5100e-003		189.2244
<b>Total</b>	<b>0.0788</b>	<b>0.0473</b>	<b>0.6496</b>		<b>0.1916</b>	<b>1.1700e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>			<b>189.1117</b>	<b>4.5100e-003</b>		<b>189.2244</b>

**3.7 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	28.0016					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314			0.1109	0.1109		0.1109	0.1109			281.4481	0.0218		281.9928
<b>Total</b>	<b>28.2438</b>	<b>1.6838</b>	<b>1.8314</b>			<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>			<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.7 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1261	0.0756	1.0393		0.3066	1.8600e-003	0.3084	0.0813	1.7200e-003	0.0830			302.5787	7.2200e-003		302.7591
<b>Total</b>	<b>0.1261</b>	<b>0.0756</b>	<b>1.0393</b>		<b>0.3066</b>	<b>1.8600e-003</b>	<b>0.3084</b>	<b>0.0813</b>	<b>1.7200e-003</b>	<b>0.0830</b>			<b>302.5787</b>	<b>7.2200e-003</b>		<b>302.7591</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.0016					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314			0.1109	0.1109		0.1109	0.1109			281.4481	0.0218		281.9928
<b>Total</b>	<b>28.2438</b>	<b>1.6838</b>	<b>1.8314</b>			<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>			<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**3.7 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1261	0.0756	1.0393		0.3066	1.8600e-003	0.3084	0.0813	1.7200e-003	0.0830			302.5787	7.2200e-003		302.7591
<b>Total</b>	<b>0.1261</b>	<b>0.0756</b>	<b>1.0393</b>		<b>0.3066</b>	<b>1.8600e-003</b>	<b>0.3084</b>	<b>0.0813</b>	<b>1.7200e-003</b>	<b>0.0830</b>			<b>302.5787</b>	<b>7.2200e-003</b>		<b>302.7591</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	1.3605	7.5944	13.5387		2.4128	0.0486	2.4614	0.6666	0.0459	0.7125			4,793.126 2	0.1926		4,797.940 7
Unmitigated	1.3605	7.5944	13.5387		2.4128	0.0486	2.4614	0.6666	0.0459	0.7125			4,793.126 2	0.1926		4,797.940 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	12.00	120.00	108.00	101,467	101,467
General Office Building	99.00	22.50	22.50	212,978	212,978
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	66.00	15.00	15.00	126,833	126,833
User Defined Recreational	132.00	30.00	30.00	253,667	253,667
Total	309.00	187.50	175.50	694,945	694,945

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
Parking Lot	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
City Park	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
NaturalGas Unmitigated	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	80.6712	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7000e-004</b>	<b>7.9100e-003</b>	<b>6.6400e-003</b>			<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>			<b>9.4907</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.5471</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	0.0806712	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7000e-004</b>	<b>7.9100e-003</b>	<b>6.6400e-003</b>			<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>			<b>9.4907</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.5471</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Unmitigated	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384

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	0.2302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
<b>Total</b>	<b>2.2000</b>	<b>1.6000e-004</b>	<b>0.0169</b>			<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0360</b>	<b>1.0000e-004</b>		<b>0.0384</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	0.2302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
<b>Total</b>	<b>2.2000</b>	<b>1.6000e-004</b>	<b>0.0169</b>			<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0360</b>	<b>1.0000e-004</b>		<b>0.0384</b>

**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
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

---

Fire Pumps and Emergency Generators

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Summer

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---



# Construction and Operation (Winter Emissions)

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation  
Placer-Lake Tahoe County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.50	1000sqft	0.03	1,500.00	0
Parking Lot	157.00	Space	1.41	62,800.00	0
City Park	3.00	Acre	3.00	130,680.00	0
User Defined Recreational	1.00	User Defined Unit	2.00	87,120.00	0
User Defined Recreational	2.00	User Defined Unit	0.05	2,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	14			<b>Operational Year</b>	2020
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

Project Characteristics - Zip Code 96143; CO2, CH4, and N2O Intensity Factor for Liberty Utilities based on the non-baseload output emissions rate for CAMX in EPA's eGRID2014v2 values: [https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf)

Land Use - User Defined Recreational=Recreational Pier on Lake Tahoe; acres of land to be disturbed <2 acres from Chapter 4, assumed 2 acres total; construction of 1,000 sf solar powered administrative building plus 500 sf new seasonal non-motorized boat storage structure; new lawn and park space of approximately 3 acres from Chapter 4; construction of two "comfort stations" totaling approximately 2,000 sf from Chapter 4; reconfigured parking of 157 spaces.

Construction Phase - CalEEMod Default Schedule ratio utilized, averaged over 36 months commencing in 2018 (3 years) consistent with the projected timeline of pier construction. Date of building construction selected to reflect construction limitations in the Tahoe Basin from May 1-October 15.

Off-road Equipment -

Off-road Equipment - Assumed equipment to drill 27 pier pilings during site preparation

Vehicle Trips - Use of 8.67 miles for trip length consistent with the TRPA Travel Demand Forecasting model multiplied by the projected increase of 222 additional daily vehicle trips from F&P traffic study, project is projected to increase VMT by 1,925 per day (702,625 annual). User defined recreation values mimic General Office Building defaults

Demolition - Demolition of existing 4 stall "comfort station" of approximately 1,500 ft

Landscape Equipment - Assumes approximately 110 "snow days" given historical climate averages

Area Coating - Consistent with PCAPCD Rule 218

Energy Use - User defined recreational applies to "comfort Stations" and pier. Comfort Stations and pier would be expected to use lighting similar to that of parking lot. Would not have natural gas/electricity use (besides lighting)

Water And Wastewater - Increase in indoor water demand of 226,120 gallons per year and outdoor water demand of 488,000 gallons per year based on Table 5.3.10-1, "Existing and Future Water Demand at KBSRA." Increase in wastewater flows of 225,500 gallons per year based on discussion under impacts 5.3.10-3 and 5.3.10-4. User defined recreation would not have water or wastewater use/production.

Solid Waste - Uses CalEEMod defaults for City Park, General Office Building, and Parking Lot. Assumes a nominal (0.25 ton/year) of waste associated with comfort stations

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblAreaCoating	Area_EF_Parking	100	0
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	345.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	10/23/2020	11/17/2020
tblConstructionPhase	PhaseEndDate	6/5/2020	8/25/2020
tblConstructionPhase	PhaseEndDate	12/8/2017	6/11/2018
tblConstructionPhase	PhaseEndDate	3/23/2018	8/13/2018
tblConstructionPhase	PhaseEndDate	8/14/2020	10/6/2020
tblConstructionPhase	PhaseEndDate	1/12/2018	7/2/2018
tblConstructionPhase	PhaseStartDate	8/15/2020	10/7/2020
tblConstructionPhase	PhaseStartDate	3/24/2018	5/1/2019
tblConstructionPhase	PhaseStartDate	10/1/2017	5/1/2018
tblConstructionPhase	PhaseStartDate	1/13/2018	7/3/2018
tblConstructionPhase	PhaseStartDate	6/6/2020	8/26/2020
tblConstructionPhase	PhaseStartDate	12/9/2017	6/12/2018
tblEnergyUse	LightingElect	0.00	0.88
tblGrading	AcresOfGrading	15.00	10.00
tblLandscapeEquipment	NumberSnowDays	0	110
tblLandUse	BuildingSpaceSquareFeet	0.00	87,120.00
tblLandUse	BuildingSpaceSquareFeet	0.00	2,000.00
tblLandUse	LandUseSquareFeet	0.00	87,120.00
tblLandUse	LandUseSquareFeet	0.00	2,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	LotAcreage	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.00	0.25
tblVehicleTrips	CC_TTP	0.00	48.00
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	33.00
tblVehicleTrips	DV_TP	0.00	28.00
tblVehicleTrips	PB_TP	0.00	6.00
tblVehicleTrips	PR_TP	0.00	66.00
tblVehicleTrips	ST_TR	22.75	40.00
tblVehicleTrips	ST_TR	2.46	15.00
tblVehicleTrips	ST_TR	0.00	15.00
tblVehicleTrips	SU_TR	16.74	36.00
tblVehicleTrips	SU_TR	1.05	15.00
tblVehicleTrips	SU_TR	0.00	15.00
tblVehicleTrips	WD_TR	1.89	4.00
tblVehicleTrips	WD_TR	11.03	66.00
tblVehicleTrips	WD_TR	0.00	66.00
tblWater	IndoorWaterUseRate	266,600.62	451,620.00
tblWater	OutdoorWaterUseRate	3,574,444.05	488,000.00
tblWater	OutdoorWaterUseRate	163,400.38	0.00

**2.0 Emissions Summary**

---

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**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					
2018	5.3134	56.7079	27.7388		18.3600	2.8159	21.1759	10.0086	2.5906	12.5992			5,995.0411	1.7888	0.0000	6,039.7614
2019	3.2598	27.3881	23.4613		1.8079	1.3333	3.1413	0.4860	1.2540	1.7400			5,280.6090	0.7482	0.0000	5,299.3131
2020	28.3725	25.0028	22.4629		1.8079	1.1490	2.9569	0.4860	1.0806	1.5666			5,187.5456	0.7289	0.0000	5,205.7668
<b>Maximum</b>	<b>28.3725</b>	<b>56.7079</b>	<b>27.7388</b>		<b>18.3600</b>	<b>2.8159</b>	<b>21.1759</b>	<b>10.0086</b>	<b>2.5906</b>	<b>12.5992</b>			<b>5,995.0411</b>	<b>1.7888</b>	<b>0.0000</b>	<b>6,039.7614</b>

**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					
2018	5.3134	56.7079	27.7388		18.3600	2.8159	21.1759	10.0086	2.5906	12.5992			5,995.0411	1.7888	0.0000	6,039.7614
2019	3.2598	27.3881	23.4613		1.8079	1.3333	3.1413	0.4860	1.2540	1.7400			5,280.6090	0.7482	0.0000	5,299.3131
2020	28.3725	25.0028	22.4629		1.8079	1.1490	2.9569	0.4860	1.0806	1.5666			5,187.5456	0.7289	0.0000	5,205.7667
<b>Maximum</b>	<b>28.3725</b>	<b>56.7079</b>	<b>27.7388</b>		<b>18.3600</b>	<b>2.8159</b>	<b>21.1759</b>	<b>10.0086</b>	<b>2.5906</b>	<b>12.5992</b>			<b>5,995.0411</b>	<b>1.7888</b>	<b>0.0000</b>	<b>6,039.7614</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Energy	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
Mobile	1.1042	7.9245	13.3223		2.4128	0.0494	2.4622	0.6666	0.0466	0.7132			4,403.1944	0.2008		4,408.2141
<b>Total</b>	<b>3.3050</b>	<b>7.9326</b>	<b>13.3458</b>		<b>2.4128</b>	<b>0.0500</b>	<b>2.4628</b>	<b>0.6666</b>	<b>0.0473</b>	<b>0.7138</b>			<b>4,412.7211</b>	<b>0.2011</b>	<b>1.7000e-004</b>	<b>4,417.7996</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Energy	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
Mobile	1.1042	7.9245	13.3223		2.4128	0.0494	2.4622	0.6666	0.0466	0.7132			4,403.1944	0.2008		4,408.2141
<b>Total</b>	<b>3.3050</b>	<b>7.9326</b>	<b>13.3458</b>		<b>2.4128</b>	<b>0.0500</b>	<b>2.4628</b>	<b>0.6666</b>	<b>0.0473</b>	<b>0.7138</b>			<b>4,412.7211</b>	<b>0.2011</b>	<b>1.7000e-004</b>	<b>4,417.7996</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	Demolition	Demolition	5/1/2018	6/11/2018	5	30	
2	Site Preparation	Site Preparation	6/12/2018	7/2/2018	5	15	
3	Grading	Grading	7/3/2018	8/13/2018	5	30	
4	Building Construction	Building Construction	5/1/2019	8/25/2020	5	345	
5	Paving	Paving	8/26/2020	10/6/2020	5	30	
6	Architectural Coating	Architectural Coating	10/7/2020	11/17/2020	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,930; Non-Residential Outdoor: 45,310; Striped Parking Area: 3,768 (Architectural Coating – sqft)

#### OffRoad Equipment

## Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	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	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50

**Trips and VMT**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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
Demolition	6	15.00	0.00	7.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	47.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2018**

**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					0.0492	0.0000	0.0492	7.4500e-003	0.0000	7.4500e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040			1.9386	1.9386		1.8048	1.8048			3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>		<b>0.0492</b>	<b>1.9386</b>	<b>1.9878</b>	<b>7.4500e-003</b>	<b>1.8048</b>	<b>1.8123</b>			<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.2 Demolition - 2018**

**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	2.3400e-003	0.0748	0.0130		4.0800e-003	3.6000e-004	4.4400e-003	1.1200e-003	3.4000e-004	1.4600e-003			20.1871	8.0000e-004		20.2070
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
Worker	0.0967	0.0762	0.7038		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			179.1590	5.2100e-003		179.2893
<b>Total</b>	<b>0.0990</b>	<b>0.1510</b>	<b>0.7168</b>		<b>0.1957</b>	<b>1.5600e-003</b>	<b>0.1972</b>	<b>0.0519</b>	<b>1.4500e-003</b>	<b>0.0534</b>			<b>199.3460</b>	<b>6.0100e-003</b>		<b>199.4963</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0492	0.0000	0.0492	7.4500e-003	0.0000	7.4500e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040			1.9386	1.9386		1.8048	1.8048			3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>		<b>0.0492</b>	<b>1.9386</b>	<b>1.9878</b>	<b>7.4500e-003</b>	<b>1.8048</b>	<b>1.8123</b>			<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.2 Demolition - 2018**

**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	2.3400e-003	0.0748	0.0130		4.0800e-003	3.6000e-004	4.4400e-003	1.1200e-003	3.4000e-004	1.4600e-003			20.1871	8.0000e-004		20.2070
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
Worker	0.0967	0.0762	0.7038		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			179.1590	5.2100e-003		179.2893
<b>Total</b>	<b>0.0990</b>	<b>0.1510</b>	<b>0.7168</b>		<b>0.1957</b>	<b>1.5600e-003</b>	<b>0.1972</b>	<b>0.0519</b>	<b>1.4500e-003</b>	<b>0.0534</b>			<b>199.3460</b>	<b>6.0100e-003</b>		<b>199.4963</b>

**3.3 Site Preparation - 2018**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.1651	56.5910	26.6597			2.8141	2.8141		2.5889	2.5889			5,720.3307	1.7808		5,764.8511
<b>Total</b>	<b>5.1651</b>	<b>56.5910</b>	<b>26.6597</b>		<b>18.0663</b>	<b>2.8141</b>	<b>20.8803</b>	<b>9.9307</b>	<b>2.5889</b>	<b>12.5196</b>			<b>5,720.3307</b>	<b>1.7808</b>		<b>5,764.8511</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.3 Site Preparation - 2018**

**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
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
Worker	0.1483	0.1169	1.0791		0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796			274.7104	8.0000e-003		274.9103
<b>Total</b>	<b>0.1483</b>	<b>0.1169</b>	<b>1.0791</b>		<b>0.2938</b>	<b>1.8400e-003</b>	<b>0.2956</b>	<b>0.0779</b>	<b>1.7000e-003</b>	<b>0.0796</b>			<b>274.7104</b>	<b>8.0000e-003</b>		<b>274.9103</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.1651	56.5910	26.6597			2.8141	2.8141		2.5889	2.5889			5,720.3307	1.7808		5,764.8511
<b>Total</b>	<b>5.1651</b>	<b>56.5910</b>	<b>26.6597</b>		<b>18.0663</b>	<b>2.8141</b>	<b>20.8803</b>	<b>9.9307</b>	<b>2.5889</b>	<b>12.5196</b>			<b>5,720.3307</b>	<b>1.7808</b>		<b>5,764.8511</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.3 Site Preparation - 2018**

**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
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
Worker	0.1483	0.1169	1.0791		0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796			274.7104	8.0000e-003		274.9103
<b>Total</b>	<b>0.1483</b>	<b>0.1169</b>	<b>1.0791</b>		<b>0.2938</b>	<b>1.8400e-003</b>	<b>0.2956</b>	<b>0.0779</b>	<b>1.7000e-003</b>	<b>0.0796</b>			<b>274.7104</b>	<b>8.0000e-003</b>		<b>274.9103</b>

**3.4 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770			1.5513	1.5513		1.4272	1.4272			2,988.0216	0.9302		3,011.2769
<b>Total</b>	<b>2.7733</b>	<b>30.6725</b>	<b>16.5770</b>		<b>6.3756</b>	<b>1.5513</b>	<b>7.9269</b>	<b>3.3484</b>	<b>1.4272</b>	<b>4.7756</b>			<b>2,988.0216</b>	<b>0.9302</b>		<b>3,011.2769</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.4 Grading - 2018**

**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
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
Worker	0.0967	0.0762	0.7038		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			179.1590	5.2100e-003		179.2893
<b>Total</b>	<b>0.0967</b>	<b>0.0762</b>	<b>0.7038</b>		<b>0.1916</b>	<b>1.2000e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.1100e-003</b>	<b>0.0519</b>			<b>179.1590</b>	<b>5.2100e-003</b>		<b>179.2893</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770			1.5513	1.5513		1.4272	1.4272			2,988.0216	0.9302		3,011.2769
<b>Total</b>	<b>2.7733</b>	<b>30.6725</b>	<b>16.5770</b>		<b>6.3756</b>	<b>1.5513</b>	<b>7.9269</b>	<b>3.3484</b>	<b>1.4272</b>	<b>4.7756</b>			<b>2,988.0216</b>	<b>0.9302</b>		<b>3,011.2769</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.4 Grading - 2018**

**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
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
Worker	0.0967	0.0762	0.7038		0.1916	1.2000e-003	0.1928	0.0508	1.1100e-003	0.0519			179.1590	5.2100e-003		179.2893
<b>Total</b>	<b>0.0967</b>	<b>0.0762</b>	<b>0.7038</b>		<b>0.1916</b>	<b>1.2000e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.1100e-003</b>	<b>0.0519</b>			<b>179.1590</b>	<b>5.2100e-003</b>		<b>179.2893</b>

**3.5 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			1.2899	1.2899		1.2127	1.2127			2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>			<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>			<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.5 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
Vendor	0.2033	5.7777	1.3279		0.2879	0.0340	0.3220	0.0829	0.0325	0.1155			1,310.3527	0.0802		1,312.3585
Worker	0.6953	0.5316	4.9697		1.5200	9.4400e-003	1.5294	0.4031	8.7000e-003	0.4118			1,378.6761	0.0366		1,379.5912
<b>Total</b>	<b>0.8986</b>	<b>6.3093</b>	<b>6.2975</b>		<b>1.8079</b>	<b>0.0435</b>	<b>1.8514</b>	<b>0.4860</b>	<b>0.0412</b>	<b>0.5272</b>			<b>2,689.0288</b>	<b>0.1168</b>		<b>2,691.9496</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638			1.2899	1.2899		1.2127	1.2127			2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>			<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>			<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.5 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
Vendor	0.2033	5.7777	1.3279		0.2879	0.0340	0.3220	0.0829	0.0325	0.1155			1,310.3527	0.0802		1,312.3585
Worker	0.6953	0.5316	4.9697		1.5200	9.4400e-003	1.5294	0.4031	8.7000e-003	0.4118			1,378.6761	0.0366		1,379.5912
<b>Total</b>	<b>0.8986</b>	<b>6.3093</b>	<b>6.2975</b>		<b>1.8079</b>	<b>0.0435</b>	<b>1.8514</b>	<b>0.4860</b>	<b>0.0412</b>	<b>0.5272</b>			<b>2,689.0288</b>	<b>0.1168</b>		<b>2,691.9496</b>

**3.5 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			1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>			<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>			<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.5 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
Vendor	0.1700	5.3463	1.1716		0.2879	0.0227	0.3106	0.0829	0.0217	0.1046			1,299.9514	0.0742		1,301.8071
Worker	0.6383	0.4704	4.4428		1.5200	9.2500e-003	1.5292	0.4031	8.5200e-003	0.4116			1,334.5312	0.0318		1,335.3251
<b>Total</b>	<b>0.8082</b>	<b>5.8168</b>	<b>5.6144</b>		<b>1.8079</b>	<b>0.0320</b>	<b>1.8399</b>	<b>0.4860</b>	<b>0.0302</b>	<b>0.5162</b>			<b>2,634.4826</b>	<b>0.1060</b>		<b>2,637.1323</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>			<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>			<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.5 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
Vendor	0.1700	5.3463	1.1716		0.2879	0.0227	0.3106	0.0829	0.0217	0.1046			1,299.9514	0.0742		1,301.8071
Worker	0.6383	0.4704	4.4428		1.5200	9.2500e-003	1.5292	0.4031	8.5200e-003	0.4116			1,334.5312	0.0318		1,335.3251
<b>Total</b>	<b>0.8082</b>	<b>5.8168</b>	<b>5.6144</b>		<b>1.8079</b>	<b>0.0320</b>	<b>1.8399</b>	<b>0.4860</b>	<b>0.0302</b>	<b>0.5162</b>			<b>2,634.4826</b>	<b>0.1060</b>		<b>2,637.1323</b>

**3.6 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	1.3566	14.0656	14.6521			0.7528	0.7528		0.6926	0.6926			2,207.7334	0.7140		2,225.5841
Paving	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4797</b>	<b>14.0656</b>	<b>14.6521</b>			<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>			<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.6 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0805	0.0593	0.5600		0.1916	1.1700e-003	0.1928	0.0508	1.0700e-003	0.0519			168.2182	4.0000e-003		168.3183
<b>Total</b>	<b>0.0805</b>	<b>0.0593</b>	<b>0.5600</b>		<b>0.1916</b>	<b>1.1700e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>			<b>168.2182</b>	<b>4.0000e-003</b>		<b>168.3183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521			0.7528	0.7528		0.6926	0.6926			2,207.7334	0.7140		2,225.5841
Paving	0.1231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4797</b>	<b>14.0656</b>	<b>14.6521</b>			<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>			<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.6 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0805	0.0593	0.5600		0.1916	1.1700e-003	0.1928	0.0508	1.0700e-003	0.0519			168.2182	4.0000e-003		168.3183
<b>Total</b>	<b>0.0805</b>	<b>0.0593</b>	<b>0.5600</b>		<b>0.1916</b>	<b>1.1700e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>			<b>168.2182</b>	<b>4.0000e-003</b>		<b>168.3183</b>

**3.7 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	28.0016					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314			0.1109	0.1109		0.1109	0.1109			281.4481	0.0218		281.9928
<b>Total</b>	<b>28.2438</b>	<b>1.6838</b>	<b>1.8314</b>			<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>			<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.7 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1287	0.0949	0.8960		0.3066	1.8600e-003	0.3084	0.0813	1.7200e-003	0.0830			269.1492	6.4000e-003		269.3093
<b>Total</b>	<b>0.1287</b>	<b>0.0949</b>	<b>0.8960</b>		<b>0.3066</b>	<b>1.8600e-003</b>	<b>0.3084</b>	<b>0.0813</b>	<b>1.7200e-003</b>	<b>0.0830</b>			<b>269.1492</b>	<b>6.4000e-003</b>		<b>269.3093</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.0016					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314			0.1109	0.1109		0.1109	0.1109			281.4481	0.0218		281.9928
<b>Total</b>	<b>28.2438</b>	<b>1.6838</b>	<b>1.8314</b>			<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>			<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>



Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**3.7 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	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1287	0.0949	0.8960		0.3066	1.8600e-003	0.3084	0.0813	1.7200e-003	0.0830			269.1492	6.4000e-003		269.3093
<b>Total</b>	<b>0.1287</b>	<b>0.0949</b>	<b>0.8960</b>		<b>0.3066</b>	<b>1.8600e-003</b>	<b>0.3084</b>	<b>0.0813</b>	<b>1.7200e-003</b>	<b>0.0830</b>			<b>269.1492</b>	<b>6.4000e-003</b>		<b>269.3093</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	1.1042	7.9245	13.3223		2.4128	0.0494	2.4622	0.6666	0.0466	0.7132			4,403.1944	0.2008		4,408.2141
Unmitigated	1.1042	7.9245	13.3223		2.4128	0.0494	2.4622	0.6666	0.0466	0.7132			4,403.1944	0.2008		4,408.2141

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	12.00	120.00	108.00	101,467	101,467
General Office Building	99.00	22.50	22.50	212,978	212,978
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	66.00	15.00	15.00	126,833	126,833
User Defined Recreational	132.00	30.00	30.00	253,667	253,667
Total	309.00	187.50	175.50	694,945	694,945

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
User Defined Recreational	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
Parking Lot	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
City Park	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
User Defined Recreational	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
NaturalGas Unmitigated	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	80.6712	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7000e-004</b>	<b>7.9100e-003</b>	<b>6.6400e-003</b>			<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>			<b>9.4907</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.5471</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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					
City Park	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
General Office Building	0.0806712	8.7000e-004	7.9100e-003	6.6400e-003			6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004			9.4907	1.8000e-004	1.7000e-004	9.5471
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
User Defined Recreational	0	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7000e-004</b>	<b>7.9100e-003</b>	<b>6.6400e-003</b>			<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>			<b>9.4907</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.5471</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
Unmitigated	2.2000	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384

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	0.2302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
<b>Total</b>	<b>2.2000</b>	<b>1.6000e-004</b>	<b>0.0169</b>			<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0360</b>	<b>1.0000e-004</b>		<b>0.0384</b>

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe 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	0.2302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5900e-003	1.6000e-004	0.0169			6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0360	1.0000e-004		0.0384
<b>Total</b>	<b>2.2000</b>	<b>1.6000e-004</b>	<b>0.0169</b>			<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0360</b>	<b>1.0000e-004</b>		<b>0.0384</b>

**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
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

---

Fire Pumps and Emergency Generators

Kings Beach SRA General Plan Revision and Pier Rebuild Construction and Operation - Placer-Lake Tahoe County, Winter

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---