

# Appendix C

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## Emissions Modeling

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 1  
El Dorado-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0
User Defined Recreational	1,800.00	User Defined Unit	0.40	1,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes construction of 300 foot pier, restoration of Meeks Creek and Lagoon, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment - Addition of two bore/drill rig to construct 300 foot pier.

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	NumDays	40.00	120.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblLandUse	LandUseSquareFeet	0.00	1,800.00
tblLandUse	LotAcreage	0.00	0.40
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.70
tblVehicleTrips	CNW_TL	6.60	3.50
tblVehicleTrips	CW_TL	14.70	7.40

**2.0 Emissions Summary**

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Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2024	0.1926	1.9614	1.4108	3.8900e-003	1.1183	0.0820	1.2003	0.6036	0.0755	0.6790			345.6167	0.0976	5.3100e-003	349.6411
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4055	0.1061	5.1500e-003	373.5923
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4881	0.1061	5.0300e-003	372.6380
2027	0.1799	1.7649	1.6307	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5496	0.1061	4.9000e-003	371.6614
2028	0.0594	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1248	0.0390	1.8000e-004	129.1542
<b>Maximum</b>	<b>0.1926</b>	<b>1.9614</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1183</b>	<b>0.0820</b>	<b>1.2003</b>	<b>0.6036</b>	<b>0.0755</b>	<b>0.6790</b>			<b>369.4055</b>	<b>0.1061</b>	<b>5.3100e-003</b>	<b>373.5923</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**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					
2024	0.1926	1.9614	1.4108	3.8900e-003	1.1183	0.0820	1.2003	0.6036	0.0755	0.6790			345.6163	0.0976	5.3100e-003	349.6408
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4052	0.1061	5.1500e-003	373.5919
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4877	0.1061	5.0300e-003	372.6376
2027	0.1799	1.7649	1.6306	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5492	0.1061	4.9000e-003	371.6610
2028	0.0594	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1246	0.0390	1.8000e-004	129.1541
<b>Maximum</b>	<b>0.1926</b>	<b>1.9614</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1183</b>	<b>0.0820</b>	<b>1.2003</b>	<b>0.6036</b>	<b>0.0755</b>	<b>0.6790</b>			<b>369.4052</b>	<b>0.1061</b>	<b>5.3100e-003</b>	<b>373.5919</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2024	7-31-2024	1.1776	1.1776
2	8-1-2024	10-31-2024	0.9733	0.9733
5	5-1-2025	7-31-2025	1.0685	1.0685
6	8-1-2025	10-31-2025	0.8832	0.8832
9	5-1-2026	7-31-2026	1.0658	1.0658
10	8-1-2026	10-31-2026	0.8809	0.8809
13	5-1-2027	7-31-2027	1.0634	1.0634

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14	8-1-2027	10-31-2027	0.8789	0.8789
17	5-1-2028	7-31-2028	0.3155	0.3155
18	8-1-2028	9-30-2028	0.2092	0.2092
		Highest	1.1776	1.1776

**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	0.0411	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.0299	0.0277	0.2083	3.2000e-004	0.0350	3.0000e-004	0.0353	9.3600e-003	2.8000e-004	9.6400e-003			30.8958	2.7800e-003	1.8000e-003	31.5005
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0710</b>	<b>0.0278</b>	<b>0.2258</b>	<b>3.2000e-004</b>	<b>0.0350</b>	<b>3.6000e-004</b>	<b>0.0353</b>	<b>9.3600e-003</b>	<b>3.4000e-004</b>	<b>9.7000e-003</b>			<b>96.3786</b>	<b>0.0719</b>	<b>2.5200e-003</b>	<b>98.9249</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0411	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.0299	0.0277	0.2083	3.2000e-004	0.0350	3.0000e-004	0.0353	9.3600e-003	2.8000e-004	9.6400e-003			30.8958	2.7800e-003	1.8000e-003	31.5005
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0710</b>	<b>0.0278</b>	<b>0.2258</b>	<b>3.2000e-004</b>	<b>0.0350</b>	<b>3.6000e-004</b>	<b>0.0353</b>	<b>9.3600e-003</b>	<b>3.4000e-004</b>	<b>9.7000e-003</b>			<b>96.3786</b>	<b>0.0719</b>	<b>2.5200e-003</b>	<b>98.9249</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2025)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2026)	Grading	5/1/2026	10/15/2026	5	120	

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4	Restoration Efforts (2027)	Grading	5/1/2027	10/15/2027	5	120
5	Paving	Paving	5/1/2028	10/13/2028	5	120

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.01**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Bore/Drill Rigs	2	8.00	221	0.50
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37



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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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	9	23.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

**3.2 Restoration Efforts (2024) - 2024**

**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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1849	1.8587	1.3447	3.4200e-003		0.0813	0.0813		0.0748	0.0748			300.6085	0.0972	0.0000	303.0391
<b>Total</b>	<b>0.1849</b>	<b>1.8587</b>	<b>1.3447</b>	<b>3.4200e-003</b>	<b>1.0935</b>	<b>0.0813</b>	<b>1.1748</b>	<b>0.5969</b>	<b>0.0748</b>	<b>0.6717</b>			<b>300.6085</b>	<b>0.0972</b>	<b>0.0000</b>	<b>303.0391</b>

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**3.2 Restoration Efforts (2024) - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.1300e-003	4.1000e-003	0.0511	1.4000e-004	0.0169	9.0000e-005	0.0170	4.4900e-003	8.0000e-005	4.5800e-003			13.3963	3.4000e-004	3.6000e-004	13.5120
<b>Total</b>	<b>7.6300e-003</b>	<b>0.1027</b>	<b>0.0660</b>	<b>4.7000e-004</b>	<b>0.0247</b>	<b>7.3000e-004</b>	<b>0.0255</b>	<b>6.6400e-003</b>	<b>6.9000e-004</b>	<b>7.3400e-003</b>			<b>45.0081</b>	<b>4.1000e-004</b>	<b>5.3100e-003</b>	<b>46.6020</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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1849	1.8587	1.3447	3.4200e-003		0.0813	0.0813		0.0748	0.0748			300.6082	0.0972	0.0000	303.0388
<b>Total</b>	<b>0.1849</b>	<b>1.8587</b>	<b>1.3447</b>	<b>3.4200e-003</b>	<b>1.0935</b>	<b>0.0813</b>	<b>1.1748</b>	<b>0.5969</b>	<b>0.0748</b>	<b>0.6717</b>			<b>300.6082</b>	<b>0.0972</b>	<b>0.0000</b>	<b>303.0388</b>

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**3.2 Restoration Efforts (2024) - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.1300e-003	4.1000e-003	0.0511	1.4000e-004	0.0169	9.0000e-005	0.0170	4.4900e-003	8.0000e-005	4.5800e-003			13.3963	3.4000e-004	3.6000e-004	13.5120
<b>Total</b>	<b>7.6300e-003</b>	<b>0.1027</b>	<b>0.0660</b>	<b>4.7000e-004</b>	<b>0.0247</b>	<b>7.3000e-004</b>	<b>0.0255</b>	<b>6.6400e-003</b>	<b>6.9000e-004</b>	<b>7.3400e-003</b>			<b>45.0081</b>	<b>4.1000e-004</b>	<b>5.3100e-003</b>	<b>46.6020</b>

**3.3 Restoration Efforts (2025) - 2025**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2025) - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2025) - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</b>

**3.4 Restoration Efforts (2026) - 2026**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.4 Restoration Efforts (2026) - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

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**3.4 Restoration Efforts (2026) - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</b>

**3.5 Restoration Efforts (2027) - 2027**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.5 Restoration Efforts (2027) - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>



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**3.5 Restoration Efforts (2027) - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</b>

**3.6 Paving - 2028**

**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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1155	0.0389	0.0000	121.0867
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0562</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1155</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0867</b>

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**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1154	0.0389	0.0000	121.0866
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0562</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1154</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0866</b>

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**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0299	0.0277	0.2083	3.2000e-004	0.0350	3.0000e-004	0.0353	9.3600e-003	2.8000e-004	9.6400e-003			30.8958	2.7800e-003	1.8000e-003	31.5005
Unmitigated	0.0299	0.0277	0.2083	3.2000e-004	0.0350	3.0000e-004	0.0353	9.3600e-003	2.8000e-004	9.6400e-003			30.8958	2.7800e-003	1.8000e-003	31.5005

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	94,910	94,910
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
<b>Total</b>	<b>49.53</b>	<b>124.46</b>	<b>139.07</b>	<b>94,910</b>	<b>94,910</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	7.40	3.70	3.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

User Defined Recreational	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

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



Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0411	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363
Unmitigated	0.0411	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0359					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363
<b>Total</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0175</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0341</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0363</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0359					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0175	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005			0.0341	9.0000e-005	0.0000	0.0363
<b>Total</b>	<b>0.0411</b>	<b>1.6000e-004</b>	<b>0.0175</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>			<b>0.0341</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0363</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	64.3404	3.4800e-003	7.2000e-004	64.6423
Unmitigated	64.3404	3.4800e-003	7.2000e-004	64.6423

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1083	0.0655	0.0000	2.7458
Unmitigated	1.1083	0.0655	0.0000	2.7458

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**11.0 Vegetation**

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Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 1  
El Dorado-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0
User Defined Recreational	1,800.00	User Defined Unit	0.40	1,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes construction of 300 foot pier, restoration of Meeks Creek and Lagoon, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment - Addition of two bore/drill rig to construct 300 foot pier.

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	NumDays	40.00	120.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblLandUse	LandUseSquareFeet	0.00	1,800.00
tblLandUse	LotAcreage	0.00	0.40
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.70
tblVehicleTrips	CNW_TL	6.60	3.50
tblVehicleTrips	CW_TL	14.70	7.40

**2.0 Emissions Summary**

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Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2024	3.2179	32.6206	23.6111	0.0651	18.6552	1.3667	20.0219	10.0633	1.2578	11.3211			6,368.0724	1.7935	0.0971	6,441.8302
2025	3.0163	29.5040	27.3446	0.0696	6.5727	1.1423	7.7150	3.4327	1.0513	4.4840			6,802.2829	1.9492	0.0941	6,877.054
2026	3.0103	29.4282	27.2922	0.0694	6.5728	1.1417	7.7144	3.4327	1.0507	4.4834			6,785.0380	1.9487	0.0919	6,861.1406
2027	3.0045	29.3594	27.2463	0.0692	6.5728	1.1412	7.7139	3.4327	1.0502	4.4829			6,767.4453	1.9482	0.0896	6,842.8569
2028	0.9940	8.6078	15.0561	0.0243	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,364.9175	0.7164	3.0800e-003	2,383.7455
Maximum	3.2179	32.6206	23.6111	0.0651	18.6552	1.3667	20.0219	10.0633	1.2578	11.3211			6,368.0729	1.7935	0.0971	6,441.8304

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Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2343	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3901	0.2651	2.0895	3.5200e-003	0.3814	3.1600e-003	0.3846	0.1018	2.9600e-003	0.1047			375.1714	0.0288	0.0195	381.7094
<b>Total</b>	<b>0.6244</b>	<b>0.2669</b>	<b>2.2837</b>	<b>3.5300e-003</b>	<b>0.3814</b>	<b>3.8500e-003</b>	<b>0.3853</b>	<b>0.1018</b>	<b>3.6500e-003</b>	<b>0.1054</b>			<b>375.5889</b>	<b>0.0299</b>	<b>0.0195</b>	<b>382.1540</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2343	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3901	0.2651	2.0895	3.5200e-003	0.3814	3.1600e-003	0.3846	0.1018	2.9600e-003	0.1047			375.1714	0.0288	0.0195	381.7094
<b>Total</b>	<b>0.6244</b>	<b>0.2669</b>	<b>2.2837</b>	<b>3.5300e-003</b>	<b>0.3814</b>	<b>3.8500e-003</b>	<b>0.3853</b>	<b>0.1018</b>	<b>3.6500e-003</b>	<b>0.1054</b>			<b>375.5889</b>	<b>0.0299</b>	<b>0.0195</b>	<b>382.1540</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2025)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2026)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2027)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.01**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Bore/Drill Rigs	2	8.00	221	0.50
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	9	23.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	3.0819	30.9780	22.4124	0.0570		1.3546	1.3546		1.2463	1.2463			5,522.7366	1.7862		5,567.3907
<b>Total</b>	<b>3.0819</b>	<b>30.9780</b>	<b>22.4124</b>	<b>0.0570</b>	<b>18.2257</b>	<b>1.3546</b>	<b>19.5804</b>	<b>9.9483</b>	<b>1.2463</b>	<b>11.1946</b>			<b>5,522.7366</b>	<b>1.7862</b>		<b>5,567.3907</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0600	0.9496	2.5700e-003	0.2938	1.5000e-003	0.2953	0.0779	1.3800e-003	0.0793			264.6665	6.0500e-003	6.0600e-003	266.6229
<b>Total</b>	<b>0.1360</b>	<b>1.6426</b>	<b>1.1987</b>	<b>8.0600e-003</b>	<b>0.4295</b>	<b>0.0121</b>	<b>0.4415</b>	<b>0.1150</b>	<b>0.0115</b>	<b>0.1265</b>			<b>845.3358</b>	<b>7.3100e-003</b>	<b>0.0971</b>	<b>874.4395</b>



Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	3.0819	30.9780	22.4124	0.0570		1.3546	1.3546		1.2463	1.2463			5,522.7366	1.7862		5,567.3907
<b>Total</b>	<b>3.0819</b>	<b>30.9780</b>	<b>22.4124</b>	<b>0.0570</b>	<b>18.2257</b>	<b>1.3546</b>	<b>19.5804</b>	<b>9.9483</b>	<b>1.2463</b>	<b>11.1946</b>			<b>5,522.7366</b>	<b>1.7862</b>		<b>5,567.3907</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0600	0.9496	2.5700e-003	0.2938	1.5000e-003	0.2953	0.0779	1.3800e-003	0.0793			264.6665	6.0500e-003	6.0600e-003	266.6229
<b>Total</b>	<b>0.1360</b>	<b>1.6426</b>	<b>1.1987</b>	<b>8.0600e-003</b>	<b>0.4295</b>	<b>0.0121</b>	<b>0.4415</b>	<b>0.1150</b>	<b>0.0115</b>	<b>0.1265</b>			<b>845.3358</b>	<b>7.3100e-003</b>	<b>0.0971</b>	<b>874.4395</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2025) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2025) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2026) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2026) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2027) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2027) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9372</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>



Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9372</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3901	0.2651	2.0895	3.5200e-003	0.3814	3.1600e-003	0.3846	0.1018	2.9600e-003	0.1047			375.1714	0.0288	0.0195	381.7094
Unmitigated	0.3901	0.2651	2.0895	3.5200e-003	0.3814	3.1600e-003	0.3846	0.1018	2.9600e-003	0.1047			375.1714	0.0288	0.0195	381.7094

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	94,910	94,910
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
Total	49.53	124.46	139.07	94,910	94,910

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	7.40	3.70	3.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
User Defined Recreational	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Unmitigated**

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

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2343	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446
Unmitigated	0.2343	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446

**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	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446
<b>Total</b>	<b>0.2343</b>	<b>1.7600e-003</b>	<b>0.1943</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4175</b>	<b>1.0900e-003</b>		<b>0.4446</b>

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0179	1.7600e-003	0.1943	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4175	1.0900e-003		0.4446
<b>Total</b>	<b>0.2343</b>	<b>1.7600e-003</b>	<b>0.1943</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4175</b>	<b>1.0900e-003</b>		<b>0.4446</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Alternative 1 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 2  
El Dorado-Lake Tahoe County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	376.00	Space	3.38	150,400.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0
User Defined Recreational	0.20	User Defined Unit	0.00	200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes construction of 200 foot pedestrian pier, restoration of Meeks Creek and Lagoon, construction of 376 parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment - Addition of bore/drill rig to construct 200 foot pier.

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vehicle Trips - approximately 95,000 VMT annually generated.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblGrading	AcresOfGrading	360.00	330.00
tblGrading	AcresOfGrading	360.00	330.00
tblGrading	AcresOfGrading	360.00	330.00
tblGrading	AcresOfGrading	180.00	60.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblLandUse	LandUseSquareFeet	0.00	200.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.40
tblVehicleTrips	CNW_TL	6.60	3.30
tblVehicleTrips	CW_TL	14.70	7.90

**2.0 Emissions Summary**

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Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2024	2.9933	30.8033	21.3637	0.0551	18.9969	1.3039	20.3008	10.0942	1.2000	11.2942			5,396.3083	1.4964	0.0971	5,462.6584
2025	3.0167	29.5903	27.2666	0.0694	9.3389	1.1423	10.4812	3.7314	1.0513	4.7827			6,782.9319	1.9496	0.0949	6,859.9516
2026	3.0108	29.5095	27.2201	0.0692	9.3389	1.1417	10.4806	3.7314	1.0507	4.7821			6,766.1838	1.9491	0.0927	6,842.5207
2027	3.0051	29.4364	27.1791	0.0691	9.3389	1.1412	10.4801	3.7314	1.0502	4.7816			6,749.0362	1.9486	0.0903	6,824.6697
2028	1.0690	8.6138	15.0075	0.0242	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,351.1640	0.7167	3.5400e-003	2,370.1351
<b>Maximum</b>	<b>3.0167</b>	<b>30.8033</b>	<b>27.2666</b>	<b>0.0694</b>	<b>18.9969</b>	<b>1.3039</b>	<b>20.3008</b>	<b>10.0942</b>	<b>1.2000</b>	<b>11.2942</b>			<b>6,782.9319</b>	<b>1.9496</b>	<b>0.0971</b>	<b>6,859.9516</b>



Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2585	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3014	0.3024	2.3378	3.3000e-003	0.3801	3.1500e-003	0.3833	0.1014	2.9500e-003	0.1044			351.3050	0.0344	0.0215	358.5697
<b>Total</b>	<b>0.5599</b>	<b>0.3029</b>	<b>2.3871</b>	<b>3.3000e-003</b>	<b>0.3801</b>	<b>3.3300e-003</b>	<b>0.3834</b>	<b>0.1014</b>	<b>3.1300e-003</b>	<b>0.1046</b>			<b>351.4108</b>	<b>0.0347</b>	<b>0.0215</b>	<b>358.6824</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2585	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3014	0.3024	2.3378	3.3000e-003	0.3801	3.1500e-003	0.3833	0.1014	2.9500e-003	0.1044			351.3050	0.0344	0.0215	358.5697
<b>Total</b>	<b>0.5599</b>	<b>0.3029</b>	<b>2.3871</b>	<b>3.3000e-003</b>	<b>0.3801</b>	<b>3.3300e-003</b>	<b>0.3834</b>	<b>0.1014</b>	<b>3.1300e-003</b>	<b>0.1046</b>			<b>351.4108</b>	<b>0.0347</b>	<b>0.0215</b>	<b>358.6824</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 60**

**Acres of Grading (Grading Phase): 330**

**Acres of Paving: 4.39**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Bore/Drill Rigs	1	8.00	221	0.50
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.6057	0.0000	18.6057	9.9893	0.0000	9.9893			0.0000			0.0000
Off-Road	2.8714	29.0770	20.3740	0.0476		1.2920	1.2920		1.1886	1.1886			4,605.373 3	1.4895		4,642.610 1
<b>Total</b>	<b>2.8714</b>	<b>29.0770</b>	<b>20.3740</b>	<b>0.0476</b>	<b>18.6057</b>	<b>1.2920</b>	<b>19.8977</b>	<b>9.9893</b>	<b>1.1886</b>	<b>11.1780</b>			<b>4,605.373 3</b>	<b>1.4895</b>		<b>4,642.610 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0973	0.0643	0.7390	2.0400e-003	0.2555	1.3000e-003	0.2568	0.0678	1.2000e-003	0.0689			210.0279	5.7600e-003	6.0500e-003	211.9760
<b>Total</b>	<b>0.1219</b>	<b>1.7263</b>	<b>0.9897</b>	<b>7.5300e-003</b>	<b>0.3911</b>	<b>0.0119</b>	<b>0.4031</b>	<b>0.1049</b>	<b>0.0114</b>	<b>0.1162</b>			<b>790.9350</b>	<b>6.9700e-003</b>	<b>0.0971</b>	<b>820.0484</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.6057	0.0000	18.6057	9.9893	0.0000	9.9893			0.0000			0.0000
Off-Road	2.8714	29.0770	20.3740	0.0476		1.2920	1.2920		1.1886	1.1886			4,605.373 3	1.4895		4,642.610 1
<b>Total</b>	<b>2.8714</b>	<b>29.0770</b>	<b>20.3740</b>	<b>0.0476</b>	<b>18.6057</b>	<b>1.2920</b>	<b>19.8977</b>	<b>9.9893</b>	<b>1.1886</b>	<b>11.1780</b>			<b>4,605.373 3</b>	<b>1.4895</b>		<b>4,642.610 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0973	0.0643	0.7390	2.0400e-003	0.2555	1.3000e-003	0.2568	0.0678	1.2000e-003	0.0689			210.0279	5.7600e-003	6.0500e-003	211.9760
<b>Total</b>	<b>0.1219</b>	<b>1.7263</b>	<b>0.9897</b>	<b>7.5300e-003</b>	<b>0.3911</b>	<b>0.0119</b>	<b>0.4031</b>	<b>0.1049</b>	<b>0.0114</b>	<b>0.1162</b>			<b>790.9350</b>	<b>6.9700e-003</b>	<b>0.0971</b>	<b>820.0484</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					8.9477	0.0000	8.9477	3.6265	0.0000	3.6265			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>8.9477</b>	<b>1.1309</b>	<b>10.0786</b>	<b>3.6265</b>	<b>1.0404</b>	<b>4.6669</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0110</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>



Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0959					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0110</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3014	0.3024	2.3378	3.3000e-003	0.3801	3.1500e-003	0.3833	0.1014	2.9500e-003	0.1044			351.3050	0.0344	0.0215	358.5697
Unmitigated	0.3014	0.3024	2.3378	3.3000e-003	0.3801	3.1500e-003	0.3833	0.1014	2.9500e-003	0.1044			351.3050	0.0344	0.0215	358.5697

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	94,580	94,580
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	0.00	0.00	0.00		
<b>Total</b>	<b>49.53</b>	<b>124.46</b>	<b>139.07</b>	<b>94,580</b>	<b>94,580</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	7.90	3.40	3.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
User Defined Recreational	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Unmitigated**

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

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2585	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127
Unmitigated	0.2585	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127

**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	0.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5400e-003	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127
<b>Total</b>	<b>0.2585</b>	<b>4.5000e-004</b>	<b>0.0493</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1059</b>	<b>2.8000e-004</b>		<b>0.1127</b>

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5400e-003	4.5000e-004	0.0493	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1059	2.8000e-004		0.1127
<b>Total</b>	<b>0.2585</b>	<b>4.5000e-004</b>	<b>0.0493</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1059</b>	<b>2.8000e-004</b>		<b>0.1127</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Alternative 2 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 3  
El Dorado-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	390.00	Space	3.51	156,000.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 390 parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.40

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tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**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					
2024	0.1660	1.7324	1.1551	2.7300e-003	1.1146	0.0745	1.1891	0.6026	0.0685	0.6711			242.8383	0.0653	5.2400e-003	246.0301
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4055	0.1061	5.1500e-003	373.5923
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4881	0.1061	5.0300e-003	372.6380
2027	0.1799	1.7649	1.6307	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5496	0.1061	4.9000e-003	371.6614
2028	0.0640	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1248	0.0390	1.8000e-004	129.1542
<b>Maximum</b>	<b>0.1805</b>	<b>1.7741</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1146</b>	<b>0.0745</b>	<b>1.1891</b>	<b>0.6026</b>	<b>0.0685</b>	<b>0.6711</b>			<b>369.4055</b>	<b>0.1061</b>	<b>5.2400e-003</b>	<b>373.5923</b>

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**2.1 Overall Construction**

**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					
2024	0.1660	1.7324	1.1551	2.7300e-003	1.1146	0.0745	1.1891	0.6026	0.0685	0.6711			242.8380	0.0653	5.2400e-003	246.0299
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4052	0.1061	5.1500e-003	373.5919
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4877	0.1061	5.0300e-003	372.6376
2027	0.1799	1.7649	1.6306	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5492	0.1061	4.9000e-003	371.6610
2028	0.0640	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1246	0.0390	1.8000e-004	129.1541
<b>Maximum</b>	<b>0.1805</b>	<b>1.7741</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1146</b>	<b>0.0745</b>	<b>1.1891</b>	<b>0.6026</b>	<b>0.0685</b>	<b>0.6711</b>			<b>369.4052</b>	<b>0.1061</b>	<b>5.2400e-003</b>	<b>373.5919</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2024	7-31-2024	1.0376	1.0376
2	8-1-2024	10-31-2024	0.8576	0.8576
5	5-1-2025	7-31-2025	1.0685	1.0685
6	8-1-2025	10-31-2025	0.8832	0.8832
9	5-1-2026	7-31-2026	1.0658	1.0658
10	8-1-2026	10-31-2026	0.8809	0.8809
13	5-1-2027	7-31-2027	1.0634	1.0634

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14	8-1-2027	10-31-2027	0.8789	0.8789
17	5-1-2028	7-31-2028	0.3180	0.3180
18	8-1-2028	9-30-2028	0.2109	0.2109
		Highest	1.0685	1.0685

**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	0.0463	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			13.2662	7.2000e-004	1.5000e-004	13.3285
Mobile	0.0300	0.0278	0.2092	3.2000e-004	0.0352	3.0000e-004	0.0355	9.4200e-003	2.8000e-004	9.7000e-003			31.0874	2.7900e-003	1.8000e-003	31.6946
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0763</b>	<b>0.0278</b>	<b>0.2138</b>	<b>3.2000e-004</b>	<b>0.0352</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>9.4200e-003</b>	<b>3.0000e-004</b>	<b>9.7200e-003</b>			<b>109.8113</b>	<b>0.0725</b>	<b>2.6700e-003</b>	<b>112.4206</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0463	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			13.2662	7.2000e-004	1.5000e-004	13.3285
Mobile	0.0300	0.0278	0.2092	3.2000e-004	0.0352	3.0000e-004	0.0355	9.4200e-003	2.8000e-004	9.7000e-003			31.0874	2.7900e-003	1.8000e-003	31.6946
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0763</b>	<b>0.0278</b>	<b>0.2138</b>	<b>3.2000e-004</b>	<b>0.0352</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>9.4200e-003</b>	<b>3.0000e-004</b>	<b>9.7200e-003</b>			<b>109.8113</b>	<b>0.0725</b>	<b>2.6700e-003</b>	<b>112.4206</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	

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4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120
5	Paving	Paving	5/1/2028	10/13/2028	5	120

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 4.52**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42

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Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

**3.2 Restoration Efforts (2024) - 2024**

**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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1597	1.6306	1.1001	2.2800e-003		0.0738	0.0738		0.0679	0.0679			200.7424	0.0649	0.0000	202.3655
<b>Total</b>	<b>0.1597</b>	<b>1.6306</b>	<b>1.1001</b>	<b>2.2800e-003</b>	<b>1.0935</b>	<b>0.0738</b>	<b>1.1673</b>	<b>0.5969</b>	<b>0.0679</b>	<b>0.6648</b>			<b>200.7424</b>	<b>0.0649</b>	<b>0.0000</b>	<b>202.3655</b>



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**3.2 Restoration Efforts (2024) - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	3.2100e-003	0.0400	1.1000e-004	0.0132	7.0000e-005	0.0133	3.5200e-003	6.0000e-005	3.5800e-003			10.4840	2.7000e-004	2.8000e-004	10.5746
<b>Total</b>	<b>6.2900e-003</b>	<b>0.1018</b>	<b>0.0549</b>	<b>4.4000e-004</b>	<b>0.0211</b>	<b>7.1000e-004</b>	<b>0.0218</b>	<b>5.6700e-003</b>	<b>6.7000e-004</b>	<b>6.3400e-003</b>			<b>42.0959</b>	<b>3.4000e-004</b>	<b>5.2300e-003</b>	<b>43.6646</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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1597	1.6306	1.1001	2.2800e-003		0.0738	0.0738		0.0679	0.0679			200.7421	0.0649	0.0000	202.3652
<b>Total</b>	<b>0.1597</b>	<b>1.6306</b>	<b>1.1001</b>	<b>2.2800e-003</b>	<b>1.0935</b>	<b>0.0738</b>	<b>1.1673</b>	<b>0.5969</b>	<b>0.0679</b>	<b>0.6648</b>			<b>200.7421</b>	<b>0.0649</b>	<b>0.0000</b>	<b>202.3652</b>

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**3.2 Restoration Efforts (2024) - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	3.2100e-003	0.0400	1.1000e-004	0.0132	7.0000e-005	0.0133	3.5200e-003	6.0000e-005	3.5800e-003			10.4840	2.7000e-004	2.8000e-004	10.5746
<b>Total</b>	<b>6.2900e-003</b>	<b>0.1018</b>	<b>0.0549</b>	<b>4.4000e-004</b>	<b>0.0211</b>	<b>7.1000e-004</b>	<b>0.0218</b>	<b>5.6700e-003</b>	<b>6.7000e-004</b>	<b>6.3400e-003</b>			<b>42.0959</b>	<b>3.4000e-004</b>	<b>5.2300e-003</b>	<b>43.6646</b>

**3.3 Restoration Efforts (2026) - 2025**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.3 Restoration Efforts (2026) - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

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**3.3 Restoration Efforts (2026) - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</b>

**3.4 Restoration Efforts (2027) - 2026**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.4 Restoration Efforts (2027) - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

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**3.4 Restoration Efforts (2027) - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</b>

**3.5 Restoration Efforts (2025) - 2027**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.5 Restoration Efforts (2025) - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

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**3.5 Restoration Efforts (2025) - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</b>

**3.6 Paving - 2028**

**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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1155	0.0389	0.0000	121.0867
Paving	5.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0608</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1155</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0867</b>



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**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1154	0.0389	0.0000	121.0866
Paving	5.9200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0608</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1154</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0866</b>

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**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive 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	0.0300	0.0278	0.2092	3.2000e-004	0.0352	3.0000e-004	0.0355	9.4200e-003	2.8000e-004	9.7000e-003			31.0874	2.7900e-003	1.8000e-003	31.6946
Unmitigated	0.0300	0.0278	0.2092	3.2000e-004	0.0352	3.0000e-004	0.0355	9.4200e-003	2.8000e-004	9.7000e-003			31.0874	2.7900e-003	1.8000e-003	31.6946

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,531	95,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>49.53</b>	<b>124.46</b>	<b>139.07</b>	<b>95,531</b>	<b>95,531</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	7.70	3.60	3.40	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
-------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			13.2662	7.2000e-004	1.5000e-004	13.3285
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			13.2662	7.2000e-004	1.5000e-004	13.3285
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

Unmitigated

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

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54600	13.2662	7.2000e-004	1.5000e-004	13.3285
<b>Total</b>		<b>13.2662</b>	<b>7.2000e-004</b>	<b>1.5000e-004</b>	<b>13.3285</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	54600	13.2662	7.2000e-004	1.5000e-004	13.3285
<b>Total</b>		<b>13.2662</b>	<b>7.2000e-004</b>	<b>1.5000e-004</b>	<b>13.3285</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0463	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-003
Unmitigated	0.0463	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-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	6.9500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0389					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-003
<b>Total</b>	<b>0.0463</b>	<b>4.0000e-005</b>	<b>4.5600e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>			<b>8.8900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.4700e-003</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9500e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0389					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005			8.8900e-003	2.0000e-005	0.0000	9.4700e-003
<b>Total</b>	<b>0.0463</b>	<b>4.0000e-005</b>	<b>4.5600e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>			<b>8.8900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>9.4700e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	64.3404	3.4800e-003	7.2000e-004	64.6423
Unmitigated	64.3404	3.4800e-003	7.2000e-004	64.6423

**7.2 Water by Land Use**

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1083	0.0655	0.0000	2.7458
Unmitigated	1.1083	0.0655	0.0000	2.7458

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**11.0 Vegetation**

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Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 3  
El Dorado-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	390.00	Space	3.51	156,000.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 390 parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.40

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7728	28.8056	19.3279	0.0456	18.5913	1.2411	19.8324	10.0464	1.1422	11.1886			4,475.8095	1.1988	0.0957	4,534.3074
2025	3.0163	29.5040	27.3446	0.0696	6.5727	1.1423	7.7150	3.4327	1.0513	4.4840			6,802.2829	1.9492	0.0941	6,879.0544
2026	3.0103	29.4282	27.2922	0.0694	6.5728	1.1417	7.7144	3.4327	1.0507	4.4834			6,785.0380	1.9487	0.0919	6,861.1406
2027	3.0045	29.3594	27.2463	0.0692	6.5728	1.1412	7.7139	3.4327	1.0502	4.4829			6,767.4453	1.9482	0.0896	6,842.8569
2028	1.0707	8.6078	15.0561	0.0243	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,364.9175	0.7164	3.0800e-003	2,383.7455
<b>Maximum</b>	<b>3.0163</b>	<b>29.5040</b>	<b>27.3446</b>	<b>0.0696</b>	<b>18.5913</b>	<b>1.2411</b>	<b>19.8324</b>	<b>10.0464</b>	<b>1.1422</b>	<b>11.1886</b>			<b>6,802.2829</b>	<b>1.9492</b>	<b>0.0957</b>	<b>6,879.0544</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3908	0.2664	2.0992	3.5400e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			377.5069	0.0289	0.0196	384.0721
<b>Total</b>	<b>0.6469</b>	<b>0.2668</b>	<b>2.1499</b>	<b>3.5400e-003</b>	<b>0.3839</b>	<b>3.3600e-003</b>	<b>0.3873</b>	<b>0.1024</b>	<b>3.1600e-003</b>	<b>0.1056</b>			<b>377.6158</b>	<b>0.0292</b>	<b>0.0196</b>	<b>384.1881</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3908	0.2664	2.0992	3.5400e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			377.5069	0.0289	0.0196	384.0721
<b>Total</b>	<b>0.6469</b>	<b>0.2668</b>	<b>2.1499</b>	<b>3.5400e-003</b>	<b>0.3839</b>	<b>3.3600e-003</b>	<b>0.3873</b>	<b>0.1024</b>	<b>3.1600e-003</b>	<b>0.1056</b>			<b>377.6158</b>	<b>0.0292</b>	<b>0.0196</b>	<b>384.1881</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 4.52**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0470	0.7432	2.0100e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			207.1303	4.7400e-003	4.7400e-003	208.6614
<b>Total</b>	<b>0.1119</b>	<b>1.6296</b>	<b>0.9923</b>	<b>7.5000e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>787.7996</b>	<b>6.0000e-003</b>	<b>0.0957</b>	<b>816.4780</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0470	0.7432	2.0100e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			207.1303	4.7400e-003	4.7400e-003	208.6614
<b>Total</b>	<b>0.1119</b>	<b>1.6296</b>	<b>0.9923</b>	<b>7.5000e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>787.7996</b>	<b>6.0000e-003</b>	<b>0.0957</b>	<b>816.4780</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0138</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0138</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3908	0.2664	2.0992	3.5400e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			377.5069	0.0289	0.0196	384.0721
Unmitigated	0.3908	0.2664	2.0992	3.5400e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			377.5069	0.0289	0.0196	384.0721

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,531	95,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	49.53	124.46	139.07	95,531	95,531

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	7.70	3.60	3.40	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

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

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Unmitigated	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160

**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	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6600e-003	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
<b>Total</b>	<b>0.2561</b>	<b>4.6000e-004</b>	<b>0.0507</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1089</b>	<b>2.8000e-004</b>		<b>0.1160</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6600e-003	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
<b>Total</b>	<b>0.2561</b>	<b>4.6000e-004</b>	<b>0.0507</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1089</b>	<b>2.8000e-004</b>		<b>0.1160</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Alternative 3  
El Dorado-Lake Tahoe County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	390.00	Space	3.51	156,000.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14	<b>Operational Year</b>	2029		
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 390 parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.40

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7730	28.8959	19.2514	0.0454	18.5913	1.2411	19.8325	10.0464	1.1422	11.1886			4,457.9422	1.1992	0.0965	4,516.6802
2025	3.0167	29.5903	27.2666	0.0694	6.5727	1.1423	7.7150	3.4327	1.0513	4.4840			6,782.9319	1.9496	0.0949	6,859.9516
2026	3.0108	29.5095	27.2201	0.0692	6.5728	1.1417	7.7144	3.4327	1.0507	4.4834			6,766.1838	1.9491	0.0927	6,842.5207
2027	3.0051	29.4364	27.1791	0.0691	6.5728	1.1412	7.7139	3.4327	1.0502	4.4829			6,749.0362	1.9486	0.0903	6,824.6697
2028	1.0718	8.6138	15.0075	0.0242	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,351.1640	0.7167	3.5400e-003	2,370.1351
<b>Maximum</b>	<b>3.0167</b>	<b>29.5903</b>	<b>27.2666</b>	<b>0.0694</b>	<b>18.5913</b>	<b>1.2411</b>	<b>19.8325</b>	<b>10.0464</b>	<b>1.1422</b>	<b>11.1886</b>			<b>6,782.9319</b>	<b>1.9496</b>	<b>0.0965</b>	<b>6,859.9516</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3025	0.3046	2.3523	3.3300e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			354.6475	0.0346	0.0216	361.9571
<b>Total</b>	<b>0.5586</b>	<b>0.3050</b>	<b>2.4030</b>	<b>3.3300e-003</b>	<b>0.3839</b>	<b>3.3600e-003</b>	<b>0.3873</b>	<b>0.1024</b>	<b>3.1600e-003</b>	<b>0.1056</b>			<b>354.7564</b>	<b>0.0349</b>	<b>0.0216</b>	<b>362.0731</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3025	0.3046	2.3523	3.3300e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			354.6475	0.0346	0.0216	361.9571
<b>Total</b>	<b>0.5586</b>	<b>0.3050</b>	<b>2.4030</b>	<b>3.3300e-003</b>	<b>0.3839</b>	<b>3.3600e-003</b>	<b>0.3873</b>	<b>0.1024</b>	<b>3.1600e-003</b>	<b>0.1056</b>			<b>354.7564</b>	<b>0.0349</b>	<b>0.0216</b>	<b>362.0731</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 4.52**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0876	0.0579	0.6651	1.8300e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			189.0251	5.1800e-003	5.4500e-003	190.7784
<b>Total</b>	<b>0.1121</b>	<b>1.7199</b>	<b>0.9158</b>	<b>7.3200e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>769.9322</b>	<b>6.3900e-003</b>	<b>0.0965</b>	<b>798.8508</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0876	0.0579	0.6651	1.8300e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			189.0251	5.1800e-003	5.4500e-003	190.7784
<b>Total</b>	<b>0.1121</b>	<b>1.7199</b>	<b>0.9158</b>	<b>7.3200e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>769.9322</b>	<b>6.3900e-003</b>	<b>0.0965</b>	<b>798.8508</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0138</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0138</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>



Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3025	0.3046	2.3523	3.3300e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			354.6475	0.0346	0.0216	361.9571
Unmitigated	0.3025	0.3046	2.3523	3.3300e-003	0.3839	3.1800e-003	0.3871	0.1024	2.9800e-003	0.1054			354.6475	0.0346	0.0216	361.9571

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,531	95,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	49.53	124.46	139.07	95,531	95,531

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	7.70	3.60	3.40	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

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

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
Unmitigated	0.2561	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160

**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	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6600e-003	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
<b>Total</b>	<b>0.2561</b>	<b>4.6000e-004</b>	<b>0.0507</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1089</b>	<b>2.8000e-004</b>		<b>0.1160</b>

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6600e-003	4.6000e-004	0.0507	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004			0.1089	2.8000e-004		0.1160
<b>Total</b>	<b>0.2561</b>	<b>4.6000e-004</b>	<b>0.0507</b>	<b>0.0000</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>			<b>0.1089</b>	<b>2.8000e-004</b>		<b>0.1160</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Alternative 3 - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Preferred Alternative  
El Dorado-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	14.00	Space	0.13	5,600.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14	<b>Operational Year</b>	2029		
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 14 additional parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.50

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**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					
2024	0.1660	1.7324	1.1551	2.7300e-003	1.1146	0.0745	1.1891	0.6026	0.0685	0.6711			242.8383	0.0653	5.2400e-003	246.0301
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4055	0.1061	5.1500e-003	373.5923
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4881	0.1061	5.0300e-003	372.6380
2027	0.1799	1.7649	1.6307	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5496	0.1061	4.9000e-003	371.6614
2028	0.0596	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1248	0.0390	1.8000e-004	129.1542
<b>Maximum</b>	<b>0.1805</b>	<b>1.7741</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1146</b>	<b>0.0745</b>	<b>1.1891</b>	<b>0.6026</b>	<b>0.0685</b>	<b>0.6711</b>			<b>369.4055</b>	<b>0.1061</b>	<b>5.2400e-003</b>	<b>373.5923</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**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					
2024	0.1660	1.7324	1.1551	2.7300e-003	1.1146	0.0745	1.1891	0.6026	0.0685	0.6711			242.8380	0.0653	5.2400e-003	246.0299
2025	0.1805	1.7741	1.6359	4.1700e-003	0.3934	0.0685	0.4620	0.2057	0.0631	0.2688			369.4052	0.1061	5.1500e-003	373.5919
2026	0.1802	1.7693	1.6331	4.1600e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			368.4877	0.1061	5.0300e-003	372.6376
2027	0.1799	1.7649	1.6306	4.1500e-003	0.3934	0.0685	0.4619	0.2057	0.0630	0.2688			367.5492	0.1061	4.9000e-003	371.6610
2028	0.0596	0.5167	0.9004	1.4500e-003	0.0110	0.0252	0.0362	2.9300e-003	0.0232	0.0261			128.1246	0.0390	1.8000e-004	129.1541
<b>Maximum</b>	<b>0.1805</b>	<b>1.7741</b>	<b>1.6359</b>	<b>4.1700e-003</b>	<b>1.1146</b>	<b>0.0745</b>	<b>1.1891</b>	<b>0.6026</b>	<b>0.0685</b>	<b>0.6711</b>			<b>369.4052</b>	<b>0.1061</b>	<b>5.2400e-003</b>	<b>373.5919</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2024	7-31-2024	1.0376	1.0376
2	8-1-2024	10-31-2024	0.8576	0.8576
5	5-1-2025	7-31-2025	1.0685	1.0685
6	8-1-2025	10-31-2025	0.8832	0.8832
9	5-1-2026	7-31-2026	1.0658	1.0658
10	8-1-2026	10-31-2026	0.8809	0.8809
13	5-1-2027	7-31-2027	1.0634	1.0634

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14	8-1-2027	10-31-2027	0.8789	0.8789
17	5-1-2028	7-31-2028	0.3156	0.3156
18	8-1-2028	9-30-2028	0.2092	0.2092
		Highest	1.0685	1.0685

**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	0.0310	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.4762	3.0000e-005	1.0000e-005	0.4785
Mobile	0.0300	0.0279	0.2097	3.2000e-004	0.0353	3.0000e-004	0.0356	9.4500e-003	2.9000e-004	9.7400e-003			31.2012	2.8000e-003	1.8100e-003	31.8098
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0610</b>	<b>0.0279</b>	<b>0.2108</b>	<b>3.2000e-004</b>	<b>0.0353</b>	<b>3.0000e-004</b>	<b>0.0356</b>	<b>9.4500e-003</b>	<b>2.9000e-004</b>	<b>9.7400e-003</b>			<b>97.1284</b>	<b>0.0718</b>	<b>2.5400e-003</b>	<b>99.6787</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0310	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.4762	3.0000e-005	1.0000e-005	0.4785
Mobile	0.0300	0.0279	0.2097	3.2000e-004	0.0353	3.0000e-004	0.0356	9.4500e-003	2.9000e-004	9.7400e-003			31.2012	2.8000e-003	1.8100e-003	31.8098
Waste						0.0000	0.0000		0.0000	0.0000			1.1083	0.0655	0.0000	2.7458
Water						0.0000	0.0000		0.0000	0.0000			64.3404	3.4800e-003	7.2000e-004	64.6423
<b>Total</b>	<b>0.0610</b>	<b>0.0279</b>	<b>0.2108</b>	<b>3.2000e-004</b>	<b>0.0353</b>	<b>3.0000e-004</b>	<b>0.0356</b>	<b>9.4500e-003</b>	<b>2.9000e-004</b>	<b>9.7400e-003</b>			<b>97.1284</b>	<b>0.0718</b>	<b>2.5400e-003</b>	<b>99.6787</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	

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4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120
5	Paving	Paving	5/1/2028	10/13/2028	5	120

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42

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Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

**3.2 Restoration Efforts (2024) - 2024**

**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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1597	1.6306	1.1001	2.2800e-003		0.0738	0.0738		0.0679	0.0679			200.7424	0.0649	0.0000	202.3655
<b>Total</b>	<b>0.1597</b>	<b>1.6306</b>	<b>1.1001</b>	<b>2.2800e-003</b>	<b>1.0935</b>	<b>0.0738</b>	<b>1.1673</b>	<b>0.5969</b>	<b>0.0679</b>	<b>0.6648</b>			<b>200.7424</b>	<b>0.0649</b>	<b>0.0000</b>	<b>202.3655</b>

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**3.2 Restoration Efforts (2024) - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	3.2100e-003	0.0400	1.1000e-004	0.0132	7.0000e-005	0.0133	3.5200e-003	6.0000e-005	3.5800e-003			10.4840	2.7000e-004	2.8000e-004	10.5746
<b>Total</b>	<b>6.2900e-003</b>	<b>0.1018</b>	<b>0.0549</b>	<b>4.4000e-004</b>	<b>0.0211</b>	<b>7.1000e-004</b>	<b>0.0218</b>	<b>5.6700e-003</b>	<b>6.7000e-004</b>	<b>6.3400e-003</b>			<b>42.0959</b>	<b>3.4000e-004</b>	<b>5.2300e-003</b>	<b>43.6646</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					1.0935	0.0000	1.0935	0.5969	0.0000	0.5969			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1597	1.6306	1.1001	2.2800e-003		0.0738	0.0738		0.0679	0.0679			200.7421	0.0649	0.0000	202.3652
<b>Total</b>	<b>0.1597</b>	<b>1.6306</b>	<b>1.1001</b>	<b>2.2800e-003</b>	<b>1.0935</b>	<b>0.0738</b>	<b>1.1673</b>	<b>0.5969</b>	<b>0.0679</b>	<b>0.6648</b>			<b>200.7421</b>	<b>0.0649</b>	<b>0.0000</b>	<b>202.3652</b>



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**3.2 Restoration Efforts (2024) - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0986	0.0150	3.3000e-004	7.8400e-003	6.4000e-004	8.4800e-003	2.1500e-003	6.1000e-004	2.7600e-003			31.6119	7.0000e-005	4.9500e-003	33.0901
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7900e-003	3.2100e-003	0.0400	1.1000e-004	0.0132	7.0000e-005	0.0133	3.5200e-003	6.0000e-005	3.5800e-003			10.4840	2.7000e-004	2.8000e-004	10.5746
<b>Total</b>	<b>6.2900e-003</b>	<b>0.1018</b>	<b>0.0549</b>	<b>4.4000e-004</b>	<b>0.0211</b>	<b>7.1000e-004</b>	<b>0.0218</b>	<b>5.6700e-003</b>	<b>6.7000e-004</b>	<b>6.3400e-003</b>			<b>42.0959</b>	<b>3.4000e-004</b>	<b>5.2300e-003</b>	<b>43.6646</b>

**3.3 Restoration Efforts (2026) - 2025**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

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**3.3 Restoration Efforts (2026) - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0943	0.0148	3.2000e-004	7.8500e-003	6.1000e-004	8.4500e-003	2.1500e-003	5.8000e-004	2.7400e-003			30.9844	7.0000e-005	4.8600e-003	32.4335
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.1900e-003	0.0413	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	7.0000e-005	3.9800e-003			11.3839	2.7000e-004	2.9000e-004	11.4773
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0975</b>	<b>0.0561</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.8000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.5000e-004</b>	<b>6.7200e-003</b>			<b>42.3683</b>	<b>3.4000e-004</b>	<b>5.1500e-003</b>	<b>43.9108</b>

**3.4 Restoration Efforts (2027) - 2026**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3900e-003	0.0898	0.0146	3.2000e-004	7.8500e-003	5.8000e-004	8.4200e-003	2.1500e-003	5.5000e-004	2.7100e-003			30.3219	6.0000e-005	4.7500e-003	31.7401
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.7400e-003	2.8800e-003	0.0386	1.2000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			11.1290	2.5000e-004	2.7000e-004	11.2163
<b>Total</b>	<b>6.1300e-003</b>	<b>0.0927</b>	<b>0.0533</b>	<b>4.4000e-004</b>	<b>0.0225</b>	<b>6.5000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>6.1000e-004</b>	<b>6.6800e-003</b>			<b>41.4509</b>	<b>3.1000e-004</b>	<b>5.0200e-003</b>	<b>42.9565</b>

**3.5 Restoration Efforts (2025) - 2027**

**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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0373	0.1058	0.0000	329.6815
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0373</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6815</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</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					0.3709	0.0000	0.3709	0.1997	0.0000	0.1997			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1741	1.6766	1.5799	3.7200e-003		0.0679	0.0679		0.0624	0.0624			327.0369	0.1058	0.0000	329.6811
<b>Total</b>	<b>0.1741</b>	<b>1.6766</b>	<b>1.5799</b>	<b>3.7200e-003</b>	<b>0.3709</b>	<b>0.0679</b>	<b>0.4387</b>	<b>0.1997</b>	<b>0.0624</b>	<b>0.2621</b>			<b>327.0369</b>	<b>0.1058</b>	<b>0.0000</b>	<b>329.6811</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3400e-003	0.0858	0.0145	3.1000e-004	7.8500e-003	5.5000e-004	8.4000e-003	2.1500e-003	5.3000e-004	2.6800e-003			29.6198	6.0000e-005	4.6400e-003	31.0053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	4.4800e-003	2.6100e-003	0.0363	1.1000e-004	0.0147	7.0000e-005	0.0148	3.9100e-003	6.0000e-005	3.9700e-003			10.8925	2.2000e-004	2.6000e-004	10.9746
<b>Total</b>	<b>5.8200e-003</b>	<b>0.0884</b>	<b>0.0508</b>	<b>4.2000e-004</b>	<b>0.0225</b>	<b>6.2000e-004</b>	<b>0.0232</b>	<b>6.0600e-003</b>	<b>5.9000e-004</b>	<b>6.6500e-003</b>			<b>40.5123</b>	<b>2.8000e-004</b>	<b>4.9000e-003</b>	<b>41.9799</b>

**3.6 Paving - 2028**

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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1155	0.0389	0.0000	121.0867
Paving	1.4900e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0564</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1155</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0867</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</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	0.0549	0.5149	0.8747	1.3700e-003		0.0251	0.0251		0.0231	0.0231			120.1154	0.0389	0.0000	121.0866
Paving	1.4900e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0564</b>	<b>0.5149</b>	<b>0.8747</b>	<b>1.3700e-003</b>		<b>0.0251</b>	<b>0.0251</b>		<b>0.0231</b>	<b>0.0231</b>			<b>120.1154</b>	<b>0.0389</b>	<b>0.0000</b>	<b>121.0866</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1600e-003	1.7800e-003	0.0258	8.0000e-005	0.0110	5.0000e-005	0.0111	2.9300e-003	4.0000e-005	2.9700e-003			8.0092	1.5000e-004	1.8000e-004	8.0675
<b>Total</b>	<b>3.1600e-003</b>	<b>1.7800e-003</b>	<b>0.0258</b>	<b>8.0000e-005</b>	<b>0.0110</b>	<b>5.0000e-005</b>	<b>0.0111</b>	<b>2.9300e-003</b>	<b>4.0000e-005</b>	<b>2.9700e-003</b>			<b>8.0092</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>8.0675</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0300	0.0279	0.2097	3.2000e-004	0.0353	3.0000e-004	0.0356	9.4500e-003	2.9000e-004	9.7400e-003			31.2012	2.8000e-003	1.8100e-003	31.8098
Unmitigated	0.0300	0.0279	0.2097	3.2000e-004	0.0353	3.0000e-004	0.0356	9.4500e-003	2.9000e-004	9.7400e-003			31.2012	2.8000e-003	1.8100e-003	31.8098

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,900	95,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>49.53</b>	<b>124.46</b>	<b>139.07</b>	<b>95,900</b>	<b>95,900</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	7.70	3.60	3.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			0.4762	3.0000e-005	1.0000e-005	0.4785
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			0.4762	3.0000e-005	1.0000e-005	0.4785
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

Unmitigated

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Mitigated**

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1960	0.4762	3.0000e-005	1.0000e-005	0.4785
<b>Total</b>		<b>0.4762</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4785</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1960	0.4762	3.0000e-005	1.0000e-005	0.4785
<b>Total</b>		<b>0.4762</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4785</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0310	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-003
Unmitigated	0.0310	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-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	1.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0292					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-003
<b>Total</b>	<b>0.0310</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.1700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.3100e-003</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.7200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0292					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1100e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.1700e-003	1.0000e-005	0.0000	2.3100e-003
<b>Total</b>	<b>0.0310</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.1700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.3100e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	64.3404	3.4800e-003	7.2000e-004	64.6423
Unmitigated	64.3404	3.4800e-003	7.2000e-004	64.6423

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 75.6591	64.3404	3.4800e-003	7.2000e-004	64.6423
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>64.3404</b>	<b>3.4800e-003</b>	<b>7.2000e-004</b>	<b>64.6423</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1083	0.0655	0.0000	2.7458
Unmitigated	1.1083	0.0655	0.0000	2.7458

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	5.46	1.1083	0.0655	0.0000	2.7458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1083</b>	<b>0.0655</b>	<b>0.0000</b>	<b>2.7458</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**11.0 Vegetation**

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Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Preferred Alternative  
El Dorado-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	14.00	Space	0.13	5,600.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14	<b>Operational Year</b>	2029		
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 14 additional parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.50



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7728	28.8056	19.3279	0.0456	18.5913	1.2411	19.8324	10.0464	1.1422	11.1886			4,475.8095	1.1988	0.0957	4,534.3074
2025	3.0163	29.5040	27.3446	0.0696	6.5727	1.1423	7.7150	3.4327	1.0513	4.4840			6,802.2829	1.9492	0.0941	6,879.0544
2026	3.0103	29.4282	27.2922	0.0694	6.5728	1.1417	7.7144	3.4327	1.0507	4.4834			6,785.0380	1.9487	0.0919	6,861.1406
2027	3.0045	29.3594	27.2463	0.0692	6.5728	1.1412	7.7139	3.4327	1.0502	4.4829			6,767.4453	1.9482	0.0896	6,842.8569
2028	0.9969	8.6078	15.0561	0.0243	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,364.9175	0.7164	3.0800e-003	2,383.7455
<b>Maximum</b>	<b>3.0163</b>	<b>29.5040</b>	<b>27.3446</b>	<b>0.0696</b>	<b>18.5913</b>	<b>1.2411</b>	<b>19.8324</b>	<b>10.0464</b>	<b>1.1422</b>	<b>11.1886</b>			<b>6,802.2829</b>	<b>1.9492</b>	<b>0.0957</b>	<b>6,879.0544</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3912	0.2671	2.1050	3.5600e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			378.8937	0.0289	0.0197	385.4750
<b>Total</b>	<b>0.5618</b>	<b>0.2672</b>	<b>2.1174</b>	<b>3.5600e-003</b>	<b>0.3854</b>	<b>3.2300e-003</b>	<b>0.3886</b>	<b>0.1028</b>	<b>3.0300e-003</b>	<b>0.1059</b>			<b>378.9202</b>	<b>0.0290</b>	<b>0.0197</b>	<b>385.5034</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3912	0.2671	2.1050	3.5600e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			378.8937	0.0289	0.0197	385.4750
<b>Total</b>	<b>0.5618</b>	<b>0.2672</b>	<b>2.1174</b>	<b>3.5600e-003</b>	<b>0.3854</b>	<b>3.2300e-003</b>	<b>0.3886</b>	<b>0.1028</b>	<b>3.0300e-003</b>	<b>0.1059</b>			<b>378.9202</b>	<b>0.0290</b>	<b>0.0197</b>	<b>385.5034</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0470	0.7432	2.0100e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			207.1303	4.7400e-003	4.7400e-003	208.6614
<b>Total</b>	<b>0.1119</b>	<b>1.6296</b>	<b>0.9923</b>	<b>7.5000e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>787.7996</b>	<b>6.0000e-003</b>	<b>0.0957</b>	<b>816.4780</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.5826	0.2491	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0101	0.0472			580.6693	1.2600e-003	0.0910	607.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0470	0.7432	2.0100e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			207.1303	4.7400e-003	4.7400e-003	208.6614
<b>Total</b>	<b>0.1119</b>	<b>1.6296</b>	<b>0.9923</b>	<b>7.5000e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>787.7996</b>	<b>6.0000e-003</b>	<b>0.0957</b>	<b>816.4780</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.5144	0.2465	5.3800e-003	0.1357	0.0101	0.1458	0.0371	9.7000e-003	0.0468			569.1320	1.2200e-003	0.0892	595.7440
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0467	0.7670	2.1600e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			224.8695	4.7500e-003	4.9000e-003	226.4489
<b>Total</b>	<b>0.1150</b>	<b>1.5611</b>	<b>1.0135</b>	<b>7.5400e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4025</b>	<b>0.1049</b>	<b>0.0108</b>	<b>0.1157</b>			<b>794.0014</b>	<b>5.9700e-003</b>	<b>0.0941</b>	<b>822.1929</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0236	1.4432	0.2436	5.2600e-003	0.1357	9.6100e-003	0.1453	0.0371	9.1900e-003	0.0463			556.9510	1.1700e-003	0.0873	582.9965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0855	0.0422	0.7175	2.0900e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			219.8056	4.3100e-003	4.6000e-003	221.2827
<b>Total</b>	<b>0.1090</b>	<b>1.4853</b>	<b>0.9611</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1151</b>			<b>776.7566</b>	<b>5.4800e-003</b>	<b>0.0919</b>	<b>804.2792</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.3783	0.2410	5.1400e-003	0.1358	9.1500e-003	0.1449	0.0371	8.7600e-003	0.0459			544.0445	1.1200e-003	0.0853	569.4871
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0382	0.6742	2.0300e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			215.1194	3.9100e-003	4.3300e-003	216.5084
<b>Total</b>	<b>0.1033</b>	<b>1.4166</b>	<b>0.9152</b>	<b>7.1700e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7700e-003</b>	<b>0.1147</b>			<b>759.1638</b>	<b>5.0300e-003</b>	<b>0.0896</b>	<b>785.9955</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0249					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9400</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0249					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9400</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0568	0.0261	0.4781	1.4800e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			158.1723	2.6800e-003	3.0800e-003	159.1577
<b>Total</b>	<b>0.0568</b>	<b>0.0261</b>	<b>0.4781</b>	<b>1.4800e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>158.1723</b>	<b>2.6800e-003</b>	<b>3.0800e-003</b>	<b>159.1577</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3912	0.2671	2.1050	3.5600e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			378.8937	0.0289	0.0197	385.4750
Unmitigated	0.3912	0.2671	2.1050	3.5600e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			378.8937	0.0289	0.0197	385.4750

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,900	95,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	49.53	124.46	139.07	95,900	95,900

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	7.70	3.60	3.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**Unmitigated**

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Unmitigated	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283

**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	9.4500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
<b>Total</b>	<b>0.1707</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>0.0266</b>	<b>7.0000e-005</b>		<b>0.0283</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.4500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
<b>Total</b>	<b>0.1707</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>0.0266</b>	<b>7.0000e-005</b>		<b>0.0283</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Meeks Bay Preferred Alternative  
El Dorado-Lake Tahoe County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	44.00	1000sqft	1.01	44,000.00	0
Parking Lot	14.00	Space	0.13	5,600.00	0
City Park	63.50	Acre	63.50	2,766,060.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	14			<b>Operational Year</b>	2029
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	535.66	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Emissions factors calculated for Liberty Utilities.

Land Use - Alternative includes restoration of Meeks Creek and Lagoon, construction of 14 additional parking spaces, SR 89 bridge replacement, and bicycle infrastructure.

Construction Phase - Construction would occur over a 5-year period. Construction activities would be limited to May 1-October 15 consistent with local regulations.

Off-road Equipment - Addition of bore/drill rig for construction of pier.

Off-road Equipment -

Demolition -

Grading - Marina removal and restoration would require substantial earth moving and grading, preliminarily estimated from the conceptual design as 30,000 cubic yards of excavation.

Vehicle Trips - approximately 95,000 VMT annually generated.

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	PhaseEndDate	6/25/2024	10/15/2024
tblConstructionPhase	PhaseEndDate	11/26/2024	10/15/2025
tblConstructionPhase	PhaseEndDate	4/29/2025	10/15/2026
tblConstructionPhase	PhaseEndDate	9/30/2025	10/15/2027
tblConstructionPhase	PhaseEndDate	1/13/2026	10/13/2028
tblConstructionPhase	PhaseStartDate	6/26/2024	5/1/2025
tblConstructionPhase	PhaseStartDate	11/27/2024	5/1/2026
tblConstructionPhase	PhaseStartDate	4/30/2025	5/1/2027
tblConstructionPhase	PhaseStartDate	10/1/2025	5/1/2028
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	360.00	17.00
tblGrading	AcresOfGrading	180.00	17.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	7,500.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.029
tblProjectCharacteristics	CO2IntensityFactor	0	535.66
tblProjectCharacteristics	N2OIntensityFactor	0	0.006
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	3.60
tblVehicleTrips	CNW_TL	6.60	3.50



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	14.70	7.70
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**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7730	28.8959	19.2514	0.0454	18.5913	1.2411	19.8325	10.0464	1.1422	11.1886			4,457.9422	1.1992	0.0965	4,516.6802
2025	3.0167	29.5903	27.2666	0.0694	6.5727	1.1423	7.7150	3.4327	1.0513	4.4840			6,782.9319	1.9496	0.0949	6,859.9516
2026	3.0108	29.5095	27.2201	0.0692	6.5728	1.1417	7.7144	3.4327	1.0507	4.4834			6,766.1838	1.9491	0.0927	6,842.5207
2027	3.0051	29.4364	27.1791	0.0691	6.5728	1.1412	7.7139	3.4327	1.0502	4.4829			6,749.0362	1.9486	0.0903	6,824.6697
2028	0.9980	8.6138	15.0075	0.0242	0.1916	0.4193	0.6109	0.0508	0.3858	0.4366			2,351.1640	0.7167	3.5400e-003	2,370.1351
<b>Maximum</b>	<b>3.0167</b>	<b>29.5903</b>	<b>27.2666</b>	<b>0.0694</b>	<b>18.5913</b>	<b>1.2411</b>	<b>19.8325</b>	<b>10.0464</b>	<b>1.1422</b>	<b>11.1886</b>			<b>6,782.9319</b>	<b>1.9496</b>	<b>0.0965</b>	<b>6,859.9516</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3030	0.3054	2.3579	3.3400e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			355.9436	0.0347	0.0217	363.2706
<b>Total</b>	<b>0.4736</b>	<b>0.3055</b>	<b>2.3703</b>	<b>3.3400e-003</b>	<b>0.3854</b>	<b>3.2300e-003</b>	<b>0.3886</b>	<b>0.1028</b>	<b>3.0300e-003</b>	<b>0.1059</b>			<b>355.9702</b>	<b>0.0347</b>	<b>0.0217</b>	<b>363.2990</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.3030	0.3054	2.3579	3.3400e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			355.9436	0.0347	0.0217	363.2706
<b>Total</b>	<b>0.4736</b>	<b>0.3055</b>	<b>2.3703</b>	<b>3.3400e-003</b>	<b>0.3854</b>	<b>3.2300e-003</b>	<b>0.3886</b>	<b>0.1028</b>	<b>3.0300e-003</b>	<b>0.1059</b>			<b>355.9702</b>	<b>0.0347</b>	<b>0.0217</b>	<b>363.2990</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Restoration Efforts (2024)	Site Preparation	5/1/2024	10/15/2024	5	120	
2	Restoration Efforts (2026)	Grading	5/1/2025	10/15/2025	5	120	
3	Restoration Efforts (2027)	Grading	5/1/2026	10/15/2026	5	120	
4	Restoration Efforts (2025)	Grading	5/1/2027	10/15/2027	5	120	
5	Paving	Paving	5/1/2028	10/13/2028	5	120	

**Acres of Grading (Site Preparation Phase): 17**

**Acres of Grading (Grading Phase): 17**

**Acres of Paving: 1.14**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Restoration Efforts (2024)	Rubber Tired Dozers	3	8.00	247	0.40
Restoration Efforts (2024)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Restoration Efforts (2026)	Excavators	2	8.00	158	0.38
Restoration Efforts (2026)	Graders	1	8.00	187	0.41
Restoration Efforts (2026)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2026)	Scrapers	2	8.00	367	0.48

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Restoration Efforts (2026)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2027)	Excavators	2	8.00	158	0.38
Restoration Efforts (2027)	Graders	1	8.00	187	0.41
Restoration Efforts (2027)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2027)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2027)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Restoration Efforts (2025)	Excavators	2	8.00	158	0.38
Restoration Efforts (2025)	Graders	1	8.00	187	0.41
Restoration Efforts (2025)	Rubber Tired Dozers	1	8.00	247	0.40
Restoration Efforts (2025)	Scrapers	2	8.00	367	0.48
Restoration Efforts (2025)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Restoration Efforts (2024)	7	18.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2026)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2027)	8	20.00	0.00	938.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Restoration Efforts (2025)	8	20.00	0.00	938.00	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

**3.1 Mitigation Measures Construction**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0876	0.0579	0.6651	1.8300e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			189.0251	5.1800e-003	5.4500e-003	190.7784
<b>Total</b>	<b>0.1121</b>	<b>1.7199</b>	<b>0.9158</b>	<b>7.3200e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>769.9322</b>	<b>6.3900e-003</b>	<b>0.0965</b>	<b>798.8508</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Restoration Efforts (2024) - 2024**

**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					18.2257	0.0000	18.2257	9.9483	0.0000	9.9483			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310			3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>18.2257</b>	<b>1.2294</b>	<b>19.4551</b>	<b>9.9483</b>	<b>1.1310</b>	<b>11.0793</b>			<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.6619	0.2506	5.4900e-003	0.1357	0.0106	0.1463	0.0371	0.0102	0.0473			580.9071	1.2100e-003	0.0911	608.0724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0876	0.0579	0.6651	1.8300e-003	0.2299	1.1700e-003	0.2311	0.0610	1.0800e-003	0.0621			189.0251	5.1800e-003	5.4500e-003	190.7784
<b>Total</b>	<b>0.1121</b>	<b>1.7199</b>	<b>0.9158</b>	<b>7.3200e-003</b>	<b>0.3656</b>	<b>0.0118</b>	<b>0.3774</b>	<b>0.0981</b>	<b>0.0112</b>	<b>0.1093</b>			<b>769.9322</b>	<b>6.3900e-003</b>	<b>0.0965</b>	<b>798.8508</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Restoration Efforts (2026) - 2025**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0237	1.5899	0.2481	5.3800e-003	0.1357	0.0102	0.1459	0.0371	9.7300e-003	0.0468			569.3921	1.1700e-003	0.0893	596.0230
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0918	0.0576	0.6874	1.9700e-003	0.2555	1.2400e-003	0.2567	0.0678	1.1400e-003	0.0689			205.2584	5.2200e-003	5.6300e-003	207.0672
<b>Total</b>	<b>0.1155</b>	<b>1.6474</b>	<b>0.9355</b>	<b>7.3500e-003</b>	<b>0.3912</b>	<b>0.0114</b>	<b>0.4026</b>	<b>0.1049</b>	<b>0.0109</b>	<b>0.1157</b>			<b>774.6505</b>	<b>6.3900e-003</b>	<b>0.0949</b>	<b>803.0902</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Restoration Efforts (2027) - 2026**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0227	1.5147	0.2452	5.2700e-003	0.1357	9.6400e-003	0.1454	0.0371	9.2200e-003	0.0463			557.2342	1.1200e-003	0.0874	583.2995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0519	0.6438	1.9100e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0800e-003	0.0688			200.6681	4.7500e-003	5.2800e-003	202.3598
<b>Total</b>	<b>0.1096</b>	<b>1.5666</b>	<b>0.8890</b>	<b>7.1800e-003</b>	<b>0.3912</b>	<b>0.0108</b>	<b>0.4020</b>	<b>0.1049</b>	<b>0.0103</b>	<b>0.1152</b>			<b>757.9024</b>	<b>5.8700e-003</b>	<b>0.0927</b>	<b>785.6593</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Restoration Efforts (2025) - 2027**

**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					6.1816	0.0000	6.1816	3.3279	0.0000	3.3279			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404			6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.1816</b>	<b>1.1309</b>	<b>7.3124</b>	<b>3.3279</b>	<b>1.0404</b>	<b>4.3683</b>			<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	1.4465	0.2427	5.1400e-003	0.1358	9.1800e-003	0.1449	0.0371	8.7800e-003	0.0459			544.3476	1.0700e-003	0.0854	569.8104
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0821	0.0471	0.6053	1.8600e-003	0.2555	1.1000e-003	0.2566	0.0678	1.0100e-003	0.0688			196.4072	4.3300e-003	4.9700e-003	197.9979
<b>Total</b>	<b>0.1039</b>	<b>1.4935</b>	<b>0.8480</b>	<b>7.0000e-003</b>	<b>0.3912</b>	<b>0.0103</b>	<b>0.4015</b>	<b>0.1049</b>	<b>9.7900e-003</b>	<b>0.1147</b>			<b>740.7547</b>	<b>5.4000e-003</b>	<b>0.0903</b>	<b>767.8083</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0249					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9400</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850			2,206.7452	0.7137		2,224.5878
Paving	0.0249					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9400</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>			<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0580	0.0322	0.4296	1.3500e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515			144.4188	2.9800e-003	3.5400e-003	145.5473
<b>Total</b>	<b>0.0580</b>	<b>0.0322</b>	<b>0.4296</b>	<b>1.3500e-003</b>	<b>0.1916</b>	<b>7.7000e-004</b>	<b>0.1924</b>	<b>0.0508</b>	<b>7.1000e-004</b>	<b>0.0515</b>			<b>144.4188</b>	<b>2.9800e-003</b>	<b>3.5400e-003</b>	<b>145.5473</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3030	0.3054	2.3579	3.3400e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			355.9436	0.0347	0.0217	363.2706
Unmitigated	0.3030	0.3054	2.3579	3.3400e-003	0.3854	3.1900e-003	0.3886	0.1028	2.9900e-003	0.1058			355.9436	0.0347	0.0217	363.2706

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	49.53	124.46	139.07	95,900	95,900
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>49.53</b>	<b>124.46</b>	<b>139.07</b>	<b>95,900</b>	<b>95,900</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	7.70	3.60	3.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0



Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Other Asphalt Surfaces	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724
Parking Lot	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

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

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
Unmitigated	0.1707	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283

**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	9.4500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
<b>Total</b>	<b>0.1707</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>0.0266</b>	<b>7.0000e-005</b>		<b>0.0283</b>

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.4500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0124	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0266	7.0000e-005		0.0283
<b>Total</b>	<b>0.1707</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>0.0266</b>	<b>7.0000e-005</b>		<b>0.0283</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Meeks Bay Preferred Alternative - El Dorado-Lake Tahoe County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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