

# Appendix E

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Air Quality and Greenhouse Gas  
Emissions Modeling Outputs

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Annual

**Tahoe Cross Country Ski Lodge Site D**  
**Placer-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.03	1000sqft	0.07	3,030.00	0
Parking Lot	100.00	Space	0.90	59,624.00	0
Health Club	10.15	1000sqft	0.23	10,150.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

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Project Characteristics - Climate Zone Based on 96145 zip code. Liberty Utility emissions factors based on CAMX region eGRID 2014v2 values:  
[https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf).

Land Use - Land uses reflect 100 new parking spaces and driveway (59,624 sf total), 3,030 sf of basement, and 10,154 sf of building.

Construction Phase - No demolition would occur under Site D. Construction would commence May 1 2020 thru early 2023. Construction would be limited to 5 days a week.

Off-road Equipment - Addition of one excavator during site preparation for basement.

Demolition - Includes demolition of existing lodge

Architectural Coating - Consistent with PCAPCD Rule 218

Vehicle Trips - Adjusted to reflect VMT value of 487,000

Energy Use - Adjusted to reflect a 30 percent reduction associated with nonresidential 2019 Title 24 1.15

Water And Wastewater - CalEEMod Defaults

Solid Waste - CalEEMod Defaults

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	200.00	650.00
tblConstructionPhase	NumDays	4.00	16.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	PhaseEndDate	4/9/2021	3/22/2023
tblConstructionPhase	PhaseEndDate	3/12/2021	11/30/2022
tblConstructionPhase	PhaseEndDate	6/5/2020	6/3/2020
tblConstructionPhase	PhaseEndDate	3/26/2021	1/25/2023
tblConstructionPhase	PhaseEndDate	6/1/2020	5/12/2020
tblConstructionPhase	PhaseStartDate	3/27/2021	1/26/2023
tblConstructionPhase	PhaseStartDate	6/6/2020	6/4/2020
tblConstructionPhase	PhaseStartDate	6/2/2020	5/13/2020
tblConstructionPhase	PhaseStartDate	3/13/2021	12/1/2022
tblConstructionPhase	PhaseStartDate	5/29/2020	5/1/2020
tblGrading	AcresOfGrading	6.00	1.50
tblGrading	AcresOfGrading	4.00	1.00
tblLandUse	LandUseSquareFeet	40,000.00	59,624.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	20.87	14.00
tblVehicleTrips	SU_TR	26.73	20.00
tblVehicleTrips	WD_TR	32.93	31.00

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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					
2020	0.1856	1.4229	1.1898	2.3700e-003	0.0936	0.0695	0.1631	0.0411	0.0667	0.1078			201.6684	0.0324	0.0000	202.4789
2021	0.2594	1.9575	1.8534	3.7500e-003	0.0586	0.0900	0.1486	0.0158	0.0869	0.1027			317.4627	0.0452	0.0000	318.5921
2022	0.2246	1.7165	1.7590	3.5600e-003	0.0552	0.0745	0.1297	0.0149	0.0718	0.0866			302.1978	0.0442	0.0000	303.3031
2023	0.0669	0.0828	0.1224	2.1000e-004	2.8900e-003	4.2100e-003	7.1000e-003	7.7000e-004	3.9900e-003	4.7600e-003			17.9118	3.7100e-003	0.0000	18.0045
<b>Maximum</b>	<b>0.2594</b>	<b>1.9575</b>	<b>1.8534</b>	<b>3.7500e-003</b>	<b>0.0936</b>	<b>0.0900</b>	<b>0.1631</b>	<b>0.0411</b>	<b>0.0869</b>	<b>0.1078</b>			<b>317.4627</b>	<b>0.0452</b>	<b>0.0000</b>	<b>318.5921</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					
2020	0.1856	1.4229	1.1898	2.3700e-003	0.0936	0.0695	0.1631	0.0411	0.0667	0.1078			201.6682	0.0324	0.0000	202.4787
2021	0.2594	1.9575	1.8534	3.7500e-003	0.0586	0.0900	0.1486	0.0158	0.0869	0.1027			317.4624	0.0452	0.0000	318.5918
2022	0.2246	1.7165	1.7590	3.5600e-003	0.0552	0.0745	0.1297	0.0149	0.0718	0.0866			302.1976	0.0442	0.0000	303.3028
2023	0.0669	0.0828	0.1224	2.1000e-004	2.8900e-003	4.2100e-003	7.1000e-003	7.7000e-004	3.9900e-003	4.7600e-003			17.9118	3.7100e-003	0.0000	18.0045
<b>Maximum</b>	<b>0.2594</b>	<b>1.9575</b>	<b>1.8534</b>	<b>3.7500e-003</b>	<b>0.0936</b>	<b>0.0900</b>	<b>0.1631</b>	<b>0.0411</b>	<b>0.0869</b>	<b>0.1078</b>			<b>317.4624</b>	<b>0.0452</b>	<b>0.0000</b>	<b>318.5918</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	5-1-2020	7-31-2020	0.5982	0.5982
2	8-1-2020	10-31-2020	0.6075	0.6075
3	11-1-2020	1-31-2021	0.5917	0.5917
4	2-1-2021	4-30-2021	0.5402	0.5402
5	5-1-2021	7-31-2021	0.5577	0.5577
6	8-1-2021	10-31-2021	0.5580	0.5580
7	11-1-2021	1-31-2022	0.5435	0.5435
8	2-1-2022	4-30-2022	0.4963	0.4963

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9	5-1-2022	7-31-2022	0.5124	0.5124
10	8-1-2022	10-31-2022	0.5127	0.5127
11	11-1-2022	1-31-2023	0.3239	0.3239
12	2-1-2023	4-30-2023	0.0773	0.0773
		Highest	0.6075	0.6075

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	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Energy	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			54.3009	1.9300e-003	3.8000e-004	54.4620
Mobile	0.0634	0.4170	0.6326	2.4900e-003	0.1829	1.7600e-003	0.1846	0.0492	1.6500e-003	0.0508			229.1957	8.8000e-003	0.0000	229.4158
Waste						0.0000	0.0000		0.0000	0.0000			11.7451	0.6941	0.0000	29.0979
Water						0.0000	0.0000		0.0000	0.0000			2.0708	0.0196	4.7000e-004	2.7018
<b>Total</b>	<b>0.1137</b>	<b>0.4262</b>	<b>0.6414</b>	<b>2.5500e-003</b>	<b>0.1829</b>	<b>2.4600e-003</b>	<b>0.1853</b>	<b>0.0492</b>	<b>2.3500e-003</b>	<b>0.0515</b>			<b>297.3144</b>	<b>0.7245</b>	<b>8.5000e-004</b>	<b>315.6796</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Energy	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			54.3009	1.9300e-003	3.8000e-004	54.4620
Mobile	0.0634	0.4170	0.6326	2.4900e-003	0.1829	1.7600e-003	0.1846	0.0492	1.6500e-003	0.0508			229.1957	8.8000e-003	0.0000	229.4158
Waste						0.0000	0.0000		0.0000	0.0000			11.7451	0.6941	0.0000	29.0979
Water						0.0000	0.0000		0.0000	0.0000			2.0708	0.0196	4.7000e-004	2.7018
<b>Total</b>	<b>0.1137</b>	<b>0.4262</b>	<b>0.6414</b>	<b>2.5500e-003</b>	<b>0.1829</b>	<b>2.4600e-003</b>	<b>0.1853</b>	<b>0.0492</b>	<b>2.3500e-003</b>	<b>0.0515</b>			<b>297.3144</b>	<b>0.7245</b>	<b>8.5000e-004</b>	<b>315.6796</b>

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

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2020	5/12/2020	5	8	
2	Grading	Grading	5/13/2020	6/3/2020	5	16	
3	Building Construction	Building Construction	6/4/2020	11/30/2022	5	650	
4	Paving	Paving	12/1/2022	1/25/2023	5	40	
5	Architectural Coating	Architectural Coating	1/26/2023	3/22/2023	5	40	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.97**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,225; Non-Residential Outdoor: 5,075; Striped Parking Area: 3,759 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

**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
Architectural Coating	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0734	0.0308	7.0000e-005		3.2800e-003	3.2800e-003		3.0200e-003	3.0200e-003			6.0506	1.9600e-003	0.0000	6.0995
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0734</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>0.0216</b>	<b>3.2800e-003</b>	<b>0.0249</b>	<b>0.0116</b>	<b>3.0200e-003</b>	<b>0.0147</b>			<b>6.0506</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.0995</b>

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**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.2000e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004			0.3338	1.0000e-005	0.0000	0.3340
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>			<b>0.3338</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3340</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					0.0216	0.0000	0.0216	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0734	0.0308	7.0000e-005		3.2800e-003	3.2800e-003		3.0200e-003	3.0200e-003			6.0506	1.9600e-003	0.0000	6.0995
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0734</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>0.0216</b>	<b>3.2800e-003</b>	<b>0.0249</b>	<b>0.0116</b>	<b>3.0200e-003</b>	<b>0.0147</b>			<b>6.0506</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.0995</b>

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**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.2000e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004			0.3338	1.0000e-005	0.0000	0.3340
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>			<b>0.3338</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3340</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0369	0.0000	0.0369	0.0200	0.0000	0.0200			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1207	0.0516	1.1000e-004		5.4800e-003	5.4800e-003		5.0400e-003	5.0400e-003			9.9117	3.2100e-003	0.0000	9.9918
<b>Total</b>	<b>0.0108</b>	<b>0.1207</b>	<b>0.0516</b>	<b>1.1000e-004</b>	<b>0.0369</b>	<b>5.4800e-003</b>	<b>0.0424</b>	<b>0.0200</b>	<b>5.0400e-003</b>	<b>0.0250</b>			<b>9.9117</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>9.9918</b>

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**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	3.1000e-004	2.3000e-004	2.4000e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004			0.6676	2.0000e-005	0.0000	0.6680
<b>Total</b>	<b>3.1000e-004</b>	<b>2.3000e-004</b>	<b>2.4000e-003</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>			<b>0.6676</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6680</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					0.0369	0.0000	0.0369	0.0200	0.0000	0.0200			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1207	0.0516	1.1000e-004		5.4800e-003	5.4800e-003		5.0400e-003	5.0400e-003			9.9117	3.2100e-003	0.0000	9.9918
<b>Total</b>	<b>0.0108</b>	<b>0.1207</b>	<b>0.0516</b>	<b>1.1000e-004</b>	<b>0.0369</b>	<b>5.4800e-003</b>	<b>0.0424</b>	<b>0.0200</b>	<b>5.0400e-003</b>	<b>0.0250</b>			<b>9.9117</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>9.9918</b>

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**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	3.1000e-004	2.3000e-004	2.4000e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004			0.6676	2.0000e-005	0.0000	0.6680
<b>Total</b>	<b>3.1000e-004</b>	<b>2.3000e-004</b>	<b>2.4000e-003</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>			<b>0.6676</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6680</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1533	1.1165	0.9957	1.6600e-003		0.0601	0.0601		0.0581	0.0581			137.0643	0.0254	0.0000	137.7004
<b>Total</b>	<b>0.1533</b>	<b>1.1165</b>	<b>0.9957</b>	<b>1.6600e-003</b>		<b>0.0601</b>	<b>0.0601</b>		<b>0.0581</b>	<b>0.0581</b>			<b>137.0643</b>	<b>0.0254</b>	<b>0.0000</b>	<b>137.7004</b>

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**3.4 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.1600e-003	0.1036	0.0204	2.4000e-004	5.3500e-003	4.3000e-004	5.7800e-003	1.5500e-003	4.1000e-004	1.9600e-003			23.2262	1.2200e-003	0.0000	23.2565
Worker	0.0114	8.3800e-003	0.0876	2.7000e-004	0.0286	1.8000e-004	0.0288	7.6000e-003	1.7000e-004	7.7700e-003			24.4142	5.8000e-004	0.0000	24.4287
<b>Total</b>	<b>0.0145</b>	<b>0.1120</b>	<b>0.1080</b>	<b>5.1000e-004</b>	<b>0.0339</b>	<b>6.1000e-004</b>	<b>0.0345</b>	<b>9.1500e-003</b>	<b>5.8000e-004</b>	<b>9.7300e-003</b>			<b>47.6404</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>47.6852</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	0.1533	1.1165	0.9957	1.6600e-003		0.0601	0.0601		0.0581	0.0581			137.0642	0.0254	0.0000	137.7003
<b>Total</b>	<b>0.1533</b>	<b>1.1165</b>	<b>0.9957</b>	<b>1.6600e-003</b>		<b>0.0601</b>	<b>0.0601</b>		<b>0.0581</b>	<b>0.0581</b>			<b>137.0642</b>	<b>0.0254</b>	<b>0.0000</b>	<b>137.7003</b>



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**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.1600e-003	0.1036	0.0204	2.4000e-004	5.3500e-003	4.3000e-004	5.7800e-003	1.5500e-003	4.1000e-004	1.9600e-003			23.2262	1.2200e-003	0.0000	23.2565
Worker	0.0114	8.3800e-003	0.0876	2.7000e-004	0.0286	1.8000e-004	0.0288	7.6000e-003	1.7000e-004	7.7700e-003			24.4142	5.8000e-004	0.0000	24.4287
<b>Total</b>	<b>0.0145</b>	<b>0.1120</b>	<b>0.1080</b>	<b>5.1000e-004</b>	<b>0.0339</b>	<b>6.1000e-004</b>	<b>0.0345</b>	<b>9.1500e-003</b>	<b>5.8000e-004</b>	<b>9.7300e-003</b>			<b>47.6404</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>47.6852</b>

**3.4 Building Construction - 2021**

**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	0.2365	1.7795	1.6834	2.8800e-003		0.0893	0.0893		0.0862	0.0862			236.9197	0.0423	0.0000	237.9771
<b>Total</b>	<b>0.2365</b>	<b>1.7795</b>	<b>1.6834</b>	<b>2.8800e-003</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0862</b>	<b>0.0862</b>			<b>236.9197</b>	<b>0.0423</b>	<b>0.0000</b>	<b>237.9771</b>

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**3.4 Building Construction - 2021**

**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	4.6000e-003	0.1650	0.0314	4.2000e-004	9.2500e-003	3.6000e-004	9.6100e-003	2.6800e-003	3.4000e-004	3.0200e-003			39.8299	1.9900e-003	0.0000	39.8796
Worker	0.0183	0.0130	0.1387	4.5000e-004	0.0494	3.1000e-004	0.0497	0.0131	2.8000e-004	0.0134			40.7131	8.9000e-004	0.0000	40.7354
<b>Total</b>	<b>0.0229</b>	<b>0.1780</b>	<b>0.1701</b>	<b>8.7000e-004</b>	<b>0.0587</b>	<b>6.7000e-004</b>	<b>0.0593</b>	<b>0.0158</b>	<b>6.2000e-004</b>	<b>0.0165</b>			<b>80.5431</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>80.6150</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	0.2365	1.7795	1.6834	2.8800e-003		0.0893	0.0893		0.0862	0.0862			236.9194	0.0423	0.0000	237.9768
<b>Total</b>	<b>0.2365</b>	<b>1.7795</b>	<b>1.6834</b>	<b>2.8800e-003</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0862</b>	<b>0.0862</b>			<b>236.9194</b>	<b>0.0423</b>	<b>0.0000</b>	<b>237.9768</b>

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**3.4 Building Construction - 2021**

**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	4.6000e-003	0.1650	0.0314	4.2000e-004	9.2500e-003	3.6000e-004	9.6100e-003	2.6800e-003	3.4000e-004	3.0200e-003			39.8299	1.9900e-003	0.0000	39.8796
Worker	0.0183	0.0130	0.1387	4.5000e-004	0.0494	3.1000e-004	0.0497	0.0131	2.8000e-004	0.0134			40.7131	8.9000e-004	0.0000	40.7354
<b>Total</b>	<b>0.0229</b>	<b>0.1780</b>	<b>0.1701</b>	<b>8.7000e-004</b>	<b>0.0587</b>	<b>6.7000e-004</b>	<b>0.0593</b>	<b>0.0158</b>	<b>6.2000e-004</b>	<b>0.0165</b>			<b>80.5431</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>80.6150</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.4879	1.5145	2.6200e-003		0.0701	0.0701		0.0677	0.0677			216.0765	0.0376	0.0000	217.0174
<b>Total</b>	<b>0.1962</b>	<b>1.4879</b>	<b>1.5145</b>	<b>2.6200e-003</b>		<b>0.0701</b>	<b>0.0701</b>		<b>0.0677</b>	<b>0.0677</b>			<b>216.0765</b>	<b>0.0376</b>	<b>0.0000</b>	<b>217.0174</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1430	0.0265	3.8000e-004	8.4300e-003	2.8000e-004	8.7100e-003	2.4400e-003	2.7000e-004	2.7100e-003			36.0238	1.7100e-003	0.0000	36.0666
Worker	0.0157	0.0107	0.1166	4.0000e-004	0.0450	2.7000e-004	0.0453	0.0120	2.5000e-004	0.0122			35.7646	7.3000e-004	0.0000	35.7829
<b>Total</b>	<b>0.0196</b>	<b>0.1537</b>	<b>0.1432</b>	<b>7.8000e-004</b>	<b>0.0535</b>	<b>5.5000e-004</b>	<b>0.0540</b>	<b>0.0144</b>	<b>5.2000e-004</b>	<b>0.0150</b>			<b>71.7884</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>71.8494</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	0.1962	1.4879	1.5144	2.6200e-003		0.0701	0.0701		0.0677	0.0677			216.0763	0.0376	0.0000	217.0171
<b>Total</b>	<b>0.1962</b>	<b>1.4879</b>	<b>1.5144</b>	<b>2.6200e-003</b>		<b>0.0701</b>	<b>0.0701</b>		<b>0.0677</b>	<b>0.0677</b>			<b>216.0763</b>	<b>0.0376</b>	<b>0.0000</b>	<b>217.0171</b>

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**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1430	0.0265	3.8000e-004	8.4300e-003	2.8000e-004	8.7100e-003	2.4400e-003	2.7000e-004	2.7100e-003			36.0238	1.7100e-003	0.0000	36.0666
Worker	0.0157	0.0107	0.1166	4.0000e-004	0.0450	2.7000e-004	0.0453	0.0120	2.5000e-004	0.0122			35.7646	7.3000e-004	0.0000	35.7829
<b>Total</b>	<b>0.0196</b>	<b>0.1537</b>	<b>0.1432</b>	<b>7.8000e-004</b>	<b>0.0535</b>	<b>5.5000e-004</b>	<b>0.0540</b>	<b>0.0144</b>	<b>5.2000e-004</b>	<b>0.0150</b>			<b>71.7884</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>71.8494</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5600e-003	0.0745	0.0969	1.5000e-004		3.8200e-003	3.8200e-003		3.5300e-003	3.5300e-003			12.9466	4.1000e-003	0.0000	13.0492
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.2100e-003</b>	<b>0.0745</b>	<b>0.0969</b>	<b>1.5000e-004</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>			<b>12.9466</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0492</b>

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**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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	6.1000e-004	4.1000e-004	4.5200e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7600e-003	4.6000e-004	1.0000e-005	4.7000e-004			1.3864	3.0000e-005	0.0000	1.3871
<b>Total</b>	<b>6.1000e-004</b>	<b>4.1000e-004</b>	<b>4.5200e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>			<b>1.3864</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.3871</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	7.5600e-003	0.0745	0.0969	1.5000e-004		3.8200e-003	3.8200e-003		3.5300e-003	3.5300e-003			12.9466	4.1000e-003	0.0000	13.0492
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.2100e-003</b>	<b>0.0745</b>	<b>0.0969</b>	<b>1.5000e-004</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>			<b>12.9466</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>13.0492</b>

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**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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	6.1000e-004	4.1000e-004	4.5200e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7600e-003	4.6000e-004	1.0000e-005	4.7000e-004			1.3864	3.0000e-005	0.0000	1.3871
<b>Total</b>	<b>6.1000e-004</b>	<b>4.1000e-004</b>	<b>4.5200e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>			<b>1.3864</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.3871</b>

**3.5 Paving - 2023**

**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	5.8000e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003			10.5952	3.3600e-003	0.0000	10.6792
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3300e-003</b>	<b>0.0561</b>	<b>0.0792</b>	<b>1.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>			<b>10.5952</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.6792</b>

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**3.5 Paving - 2023**

**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	4.7000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004			1.0911	2.0000e-005	0.0000	1.0916
<b>Total</b>	<b>4.7000e-004</b>	<b>3.0000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>			<b>1.0911</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0916</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	5.8000e-003	0.0561	0.0792	1.2000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003			10.5952	3.3600e-003	0.0000	10.6791
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.3300e-003</b>	<b>0.0561</b>	<b>0.0792</b>	<b>1.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>			<b>10.5952</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.6791</b>



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**3.5 Paving - 2023**

**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	4.7000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004			1.0911	2.0000e-005	0.0000	1.0916
<b>Total</b>	<b>4.7000e-004</b>	<b>3.0000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>			<b>1.0911</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0916</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0558					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003			5.1065	3.1000e-004	0.0000	5.1142
<b>Total</b>	<b>0.0596</b>	<b>0.0261</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>			<b>5.1065</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>5.1142</b>

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**3.6 Architectural Coating - 2023**

**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	4.8000e-004	3.1000e-004	3.5000e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4700e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.1191	2.0000e-005	0.0000	1.1196
<b>Total</b>	<b>4.8000e-004</b>	<b>3.1000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>			<b>1.1191</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1196</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0558					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003			5.1065	3.1000e-004	0.0000	5.1141
<b>Total</b>	<b>0.0596</b>	<b>0.0261</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>			<b>5.1065</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>5.1141</b>

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**3.6 Architectural Coating - 2023**

**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	4.8000e-004	3.1000e-004	3.5000e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4700e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.1191	2.0000e-005	0.0000	1.1196
<b>Total</b>	<b>4.8000e-004</b>	<b>3.1000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>			<b>1.1191</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1196</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	0.0634	0.4170	0.6326	2.4900e-003	0.1829	1.7600e-003	0.1846	0.0492	1.6500e-003	0.0508			229.1957	8.8000e-003	0.0000	229.4158
Unmitigated	0.0634	0.4170	0.6326	2.4900e-003	0.1829	1.7600e-003	0.1846	0.0492	1.6500e-003	0.0508			229.1957	8.8000e-003	0.0000	229.4158

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	314.65	142.10	203.00	491,768	491,768
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	314.65	142.10	203.00	491,768	491,768

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
Health Club	14.70	6.60	6.60	16.90	64.10	19.00	52	39	9
Other Non-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

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Other Non-Asphalt Surfaces	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Parking Lot	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

**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			44.2046	1.7400e-003	1.9000e-004	44.3058
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			44.2046	1.7400e-003	1.9000e-004	44.3058
NaturalGas Mitigated	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
NaturalGas Unmitigated	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562

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**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					
Health Club	189196	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>1.0200e-003</b>	<b>9.2700e-003</b>	<b>7.7900e-003</b>	<b>6.0000e-005</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>			<b>10.0962</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.1562</b>

**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					
Health Club	189196	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>1.0200e-003</b>	<b>9.2700e-003</b>	<b>7.7900e-003</b>	<b>6.0000e-005</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>			<b>10.0962</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.1562</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	85767.5	35.5539	1.4000e-003	1.6000e-004	35.6353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	20868.4	8.6508	3.4000e-004	4.0000e-005	8.6706
<b>Total</b>		<b>44.2046</b>	<b>1.7400e-003</b>	<b>2.0000e-004</b>	<b>44.3058</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	85767.5	35.5539	1.4000e-003	1.6000e-004	35.6353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	20868.4	8.6508	3.4000e-004	4.0000e-005	8.6706
<b>Total</b>		<b>44.2046</b>	<b>1.7400e-003</b>	<b>2.0000e-004</b>	<b>44.3058</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive 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	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Unmitigated	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-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	5.5800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
<b>Total</b>	<b>0.0494</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.1500e-003</b>



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**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	5.5800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
<b>Total</b>	<b>0.0494</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.1500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0708	0.0196	4.7000e-004	2.7018
Unmitigated	2.0708	0.0196	4.7000e-004	2.7018

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.600303 / 0.367928	2.0708	0.0196	4.7000e-004	2.7018
Other Non-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>2.0708</b>	<b>0.0196</b>	<b>4.7000e-004</b>	<b>2.7018</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.600303 / 0.367928	2.0708	0.0196	4.7000e-004	2.7018
Other Non-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>2.0708</b>	<b>0.0196</b>	<b>4.7000e-004</b>	<b>2.7018</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.7451	0.6941	0.0000	29.0979
Unmitigated	11.7451	0.6941	0.0000	29.0979

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	57.86	11.7451	0.6941	0.0000	29.0979
Other Non-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>11.7451</b>	<b>0.6941</b>	<b>0.0000</b>	<b>29.0979</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	57.86	11.7451	0.6941	0.0000	29.0979
Other Non-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>11.7451</b>	<b>0.6941</b>	<b>0.0000</b>	<b>29.0979</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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Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Annual

**11.0 Vegetation**

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Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**Tahoe Cross Country Ski Lodge Site D**  
**Placer-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.03	1000sqft	0.07	3,030.00	0
Parking Lot	100.00	Space	0.90	59,624.00	0
Health Club	10.15	1000sqft	0.23	10,150.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

Project Characteristics - Climate Zone Based on 96145 zip code. Liberty Utility emissions factors based on CAMX region eGRID 2014v2 values:  
[https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf).

Land Use - Land uses reflect 100 new parking spaces and driveway (59,624 sf total), 3,030 sf of basement, and 10,154 sf of building.

Construction Phase - No demolition would occur under Site D. Construction would commence May 1 2020 thru early 2023. Construction would be limited to 5 days a week.

Off-road Equipment - Addition of one excavator during site preparation for basement.

Demolition - Includes demolition of existing lodge

Architectural Coating - Consistent with PCAPCD Rule 218

Vehicle Trips - Adjusted to reflect VMT value of 487,000

Energy Use - Adjusted to reflect a 30 percent reduction associated with nonresidential 2019 Title 24 1.15

Water And Wastewater - CalEEMod Defaults

Solid Waste - CalEEMod Defaults



Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	200.00	650.00
tblConstructionPhase	NumDays	4.00	16.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	PhaseEndDate	4/9/2021	3/22/2023
tblConstructionPhase	PhaseEndDate	3/12/2021	11/30/2022
tblConstructionPhase	PhaseEndDate	6/5/2020	6/3/2020
tblConstructionPhase	PhaseEndDate	3/26/2021	1/25/2023
tblConstructionPhase	PhaseEndDate	6/1/2020	5/12/2020
tblConstructionPhase	PhaseStartDate	3/27/2021	1/26/2023
tblConstructionPhase	PhaseStartDate	6/6/2020	6/4/2020
tblConstructionPhase	PhaseStartDate	6/2/2020	5/13/2020
tblConstructionPhase	PhaseStartDate	3/13/2021	12/1/2022
tblConstructionPhase	PhaseStartDate	5/29/2020	5/1/2020
tblGrading	AcresOfGrading	6.00	1.50
tblGrading	AcresOfGrading	4.00	1.00
tblLandUse	LandUseSquareFeet	40,000.00	59,624.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	20.87	14.00
tblVehicleTrips	SU_TR	26.73	20.00
tblVehicleTrips	WD_TR	32.93	31.00

## Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2342	18.3716	14.7751	0.0293	5.5041	0.8216	6.3257	2.9379	0.7764	3.6937			2,736.313 9	0.5417	0.0000	2,746.252 8
2021	1.9985	14.9741	14.3498	0.0291	0.4695	0.6894	1.1589	0.1262	0.6655	0.7917			2,719.929 0	0.3815	0.0000	2,729.465 1
2022	1.8227	13.7719	14.0694	0.0289	0.4695	0.5935	1.0629	0.1262	0.5732	0.6993			2,703.675 5	0.4144	0.0000	2,712.952 4
2023	3.0054	6.2656	9.2455	0.0150	0.1661	0.3094	0.4754	0.0440	0.2855	0.3295			1,444.189 7	0.4142	0.0000	1,454.545 0
<b>Maximum</b>	<b>3.0054</b>	<b>18.3716</b>	<b>14.7751</b>	<b>0.0293</b>	<b>5.5041</b>	<b>0.8216</b>	<b>6.3257</b>	<b>2.9379</b>	<b>0.7764</b>	<b>3.6937</b>			<b>2,736.313 9</b>	<b>0.5417</b>	<b>0.0000</b>	<b>2,746.252 8</b>



Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Energy	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Mobile	0.4973	2.5799	4.1790	0.0167	1.2055	0.0111	1.2165	0.3231	0.0104	0.3334			1,693.8987	0.0603		1,695.4062
<b>Total</b>	<b>0.7739</b>	<b>2.6309</b>	<b>4.2332</b>	<b>0.0170</b>	<b>1.2055</b>	<b>0.0150</b>	<b>1.2204</b>	<b>0.3231</b>	<b>0.0143</b>	<b>0.3373</b>			<b>1,754.9053</b>	<b>0.0615</b>	<b>1.1200e-003</b>	<b>1,756.7768</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	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Energy	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Mobile	0.4973	2.5799	4.1790	0.0167	1.2055	0.0111	1.2165	0.3231	0.0104	0.3334			1,693.8987	0.0603		1,695.4062
<b>Total</b>	<b>0.7739</b>	<b>2.6309</b>	<b>4.2332</b>	<b>0.0170</b>	<b>1.2055</b>	<b>0.0150</b>	<b>1.2204</b>	<b>0.3231</b>	<b>0.0143</b>	<b>0.3373</b>			<b>1,754.9053</b>	<b>0.0615</b>	<b>1.1200e-003</b>	<b>1,756.7768</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2020	5/12/2020	5	8	
2	Grading	Grading	5/13/2020	6/3/2020	5	16	
3	Building Construction	Building Construction	6/4/2020	11/30/2022	5	650	
4	Paving	Paving	12/1/2022	1/25/2023	5	40	
5	Architectural Coating	Architectural Coating	1/26/2023	3/22/2023	5	40	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,225; Non-Residential Outdoor: 5,075; Striped Parking Area: 3,759 (Architectural Coating – sqft)

#### OffRoad Equipment

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

**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
Architectural Coating	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4019	0.0000	5.4019	2.9108	0.0000	2.9108			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553			1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.4019</b>	<b>0.8210</b>	<b>6.2228</b>	<b>2.9108</b>	<b>0.7553</b>	<b>3.6660</b>			<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4019	0.0000	5.4019	2.9108	0.0000	2.9108			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553			1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.4019</b>	<b>0.8210</b>	<b>6.2228</b>	<b>2.9108</b>	<b>0.7553</b>	<b>3.6660</b>			<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>



Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6160	0.0000	4.6160	2.4934	0.0000	2.4934			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296			1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.6160</b>	<b>0.6844</b>	<b>5.3004</b>	<b>2.4934</b>	<b>0.6296</b>	<b>3.1230</b>			<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6160	0.0000	4.6160	2.4934	0.0000	2.4934			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296			1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.6160</b>	<b>0.6844</b>	<b>5.3004</b>	<b>2.4934</b>	<b>0.6296</b>	<b>3.1230</b>			<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688			2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>			<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0408	1.3544	0.2445	3.2900e-003	0.0735	5.6300e-003	0.0791	0.0212	5.3800e-003	0.0266			344.3237	0.0167		344.7422
Worker	0.1628	0.0977	1.3425	3.9200e-003	0.3960	2.4100e-003	0.3984	0.1050	2.2200e-003	0.1072			390.8308	9.3200e-003		391.0638
<b>Total</b>	<b>0.2037</b>	<b>1.4521</b>	<b>1.5870</b>	<b>7.2100e-003</b>	<b>0.4695</b>	<b>8.0400e-003</b>	<b>0.4775</b>	<b>0.1262</b>	<b>7.6000e-003</b>	<b>0.1338</b>			<b>735.1544</b>	<b>0.0261</b>		<b>735.8060</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688			2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>			<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0408	1.3544	0.2445	3.2900e-003	0.0735	5.6300e-003	0.0791	0.0212	5.3800e-003	0.0266			344.3237	0.0167		344.7422
Worker	0.1628	0.0977	1.3425	3.9200e-003	0.3960	2.4100e-003	0.3984	0.1050	2.2200e-003	0.1072			390.8308	9.3200e-003		391.0638
<b>Total</b>	<b>0.2037</b>	<b>1.4521</b>	<b>1.5870</b>	<b>7.2100e-003</b>	<b>0.4695</b>	<b>8.0400e-003</b>	<b>0.4775</b>	<b>0.1262</b>	<b>7.6000e-003</b>	<b>0.1338</b>			<b>735.1544</b>	<b>0.0261</b>		<b>735.8060</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608			2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>			<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2021**

**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
Vendor	0.0343	1.2504	0.2166	3.2600e-003	0.0735	2.7000e-003	0.0762	0.0212	2.5800e-003	0.0238			341.6542	0.0158		342.0496
Worker	0.1517	0.0876	1.2338	3.7800e-003	0.3960	2.3400e-003	0.3983	0.1050	2.1600e-003	0.1072			377.0548	8.3600e-003		377.2637
<b>Total</b>	<b>0.1860</b>	<b>1.3381</b>	<b>1.4504</b>	<b>7.0400e-003</b>	<b>0.4695</b>	<b>5.0400e-003</b>	<b>0.4745</b>	<b>0.1262</b>	<b>4.7400e-003</b>	<b>0.1309</b>			<b>718.7090</b>	<b>0.0242</b>		<b>719.3134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608			2,001,220 0	0.3573		2,010,151 7
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>			<b>2,001,220 0</b>	<b>0.3573</b>		<b>2,010,151 7</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2021**

**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
Vendor	0.0343	1.2504	0.2166	3.2600e-003	0.0735	2.7000e-003	0.0762	0.0212	2.5800e-003	0.0238			341.6542	0.0158		342.0496
Worker	0.1517	0.0876	1.2338	3.7800e-003	0.3960	2.3400e-003	0.3983	0.1050	2.1600e-003	0.1072			377.0548	8.3600e-003		377.2637
<b>Total</b>	<b>0.1860</b>	<b>1.3381</b>	<b>1.4504</b>	<b>7.0400e-003</b>	<b>0.4695</b>	<b>5.0400e-003</b>	<b>0.4745</b>	<b>0.1262</b>	<b>4.7400e-003</b>	<b>0.1309</b>			<b>718.7090</b>	<b>0.0242</b>		<b>719.3134</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689			2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>			<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0319	1.1899	0.2010	3.2400e-003	0.0735	2.3000e-003	0.0758	0.0212	2.2000e-003	0.0234			338.9184	0.0150		339.2921
Worker	0.1422	0.0790	1.1420	3.6400e-003	0.3960	2.2900e-003	0.3983	0.1050	2.1100e-003	0.1071			363.2143	7.5200e-003		363.4023
<b>Total</b>	<b>0.1741</b>	<b>1.2689</b>	<b>1.3430</b>	<b>6.8800e-003</b>	<b>0.4695</b>	<b>4.5900e-003</b>	<b>0.4741</b>	<b>0.1262</b>	<b>4.3100e-003</b>	<b>0.1305</b>			<b>702.1326</b>	<b>0.0225</b>		<b>702.6944</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689			2,001,542.9	0.3486		2,010,258.1
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>			<b>2,001,542.9</b>	<b>0.3486</b>		<b>2,010,258.1</b>



Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0319	1.1899	0.2010	3.2400e-003	0.0735	2.3000e-003	0.0758	0.0212	2.2000e-003	0.0234			338.9184	0.0150		339.2921
Worker	0.1422	0.0790	1.1420	3.6400e-003	0.3960	2.2900e-003	0.3983	0.1050	2.1100e-003	0.1071			363.2143	7.5200e-003		363.4023
<b>Total</b>	<b>0.1741</b>	<b>1.2689</b>	<b>1.3430</b>	<b>6.8800e-003</b>	<b>0.4695</b>	<b>4.5900e-003</b>	<b>0.4741</b>	<b>0.1262</b>	<b>4.3100e-003</b>	<b>0.1305</b>			<b>702.1326</b>	<b>0.0225</b>		<b>702.6944</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205			1,297.3789	0.4113		1,307.6608
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7466</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>			<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0596	0.0331	0.4789	1.5300e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449			152.3157	3.1500e-003		152.3945
<b>Total</b>	<b>0.0596</b>	<b>0.0331</b>	<b>0.4789</b>	<b>1.5300e-003</b>	<b>0.1661</b>	<b>9.6000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.8000e-004</b>	<b>0.0449</b>			<b>152.3157</b>	<b>3.1500e-003</b>		<b>152.3945</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205			1,297.3789	0.4113		1,307.6608
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7466</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>			<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0596	0.0331	0.4789	1.5300e-003	0.1661	9.6000e-004	0.1670	0.0440	8.8000e-004	0.0449			152.3157	3.1500e-003		152.3945
<b>Total</b>	<b>0.0596</b>	<b>0.0331</b>	<b>0.4789</b>	<b>1.5300e-003</b>	<b>0.1661</b>	<b>9.6000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.8000e-004</b>	<b>0.0449</b>			<b>152.3157</b>	<b>3.1500e-003</b>		<b>152.3945</b>

**3.5 Paving - 2023**

**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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846			1,297.6880	0.4114		1,307.9725
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7036</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>			<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.5 Paving - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0560	0.0299	0.4432	1.4700e-003	0.1661	9.4000e-004	0.1670	0.0440	8.7000e-004	0.0449			146.5017	2.8300e-003		146.5725
<b>Total</b>	<b>0.0560</b>	<b>0.0299</b>	<b>0.4432</b>	<b>1.4700e-003</b>	<b>0.1661</b>	<b>9.4000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.7000e-004</b>	<b>0.0449</b>			<b>146.5017</b>	<b>2.8300e-003</b>		<b>146.5725</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846			1,297.6880	0.4114		1,307.9725
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7036</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>			<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.5 Paving - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0560	0.0299	0.4432	1.4700e-003	0.1661	9.4000e-004	0.1670	0.0440	8.7000e-004	0.0449			146.5017	2.8300e-003		146.5725
<b>Total</b>	<b>0.0560</b>	<b>0.0299</b>	<b>0.4432</b>	<b>1.4700e-003</b>	<b>0.1661</b>	<b>9.4000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.7000e-004</b>	<b>0.0449</b>			<b>146.5017</b>	<b>2.8300e-003</b>		<b>146.5725</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
<b>Total</b>	<b>2.9795</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>			<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.6 Architectural Coating - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0259	0.0138	0.2045	6.8000e-004	0.0766	4.3000e-004	0.0771	0.0203	4.0000e-004	0.0207			67.6162	1.3100e-003		67.6489
<b>Total</b>	<b>0.0259</b>	<b>0.0138</b>	<b>0.2045</b>	<b>6.8000e-004</b>	<b>0.0766</b>	<b>4.3000e-004</b>	<b>0.0771</b>	<b>0.0203</b>	<b>4.0000e-004</b>	<b>0.0207</b>			<b>67.6162</b>	<b>1.3100e-003</b>		<b>67.6489</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
<b>Total</b>	<b>2.9795</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>			<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**3.6 Architectural Coating - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0259	0.0138	0.2045	6.8000e-004	0.0766	4.3000e-004	0.0771	0.0203	4.0000e-004	0.0207			67.6162	1.3100e-003		67.6489
<b>Total</b>	<b>0.0259</b>	<b>0.0138</b>	<b>0.2045</b>	<b>6.8000e-004</b>	<b>0.0766</b>	<b>4.3000e-004</b>	<b>0.0771</b>	<b>0.0203</b>	<b>4.0000e-004</b>	<b>0.0207</b>			<b>67.6162</b>	<b>1.3100e-003</b>		<b>67.6489</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4973	2.5799	4.1790	0.0167	1.2055	0.0111	1.2165	0.3231	0.0104	0.3334			1,693.8987	0.0603		1,695.4062
Unmitigated	0.4973	2.5799	4.1790	0.0167	1.2055	0.0111	1.2165	0.3231	0.0104	0.3334			1,693.8987	0.0603		1,695.4062

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	314.65	142.10	203.00	491,768	491,768
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	314.65	142.10	203.00	491,768	491,768

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
Health Club	14.70	6.60	6.60	16.90	64.10	19.00	52	39	9
Other Non-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



Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Other Non-Asphalt Surfaces	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Parking Lot	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

**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	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
NaturalGas Unmitigated	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	518.345	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>5.5900e-003</b>	<b>0.0508</b>	<b>0.0427</b>	<b>3.0000e-004</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>			<b>60.9818</b>	<b>1.1700e-003</b>	<b>1.1200e-003</b>	<b>61.3442</b>

**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					
Health Club	0.518345	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>5.5900e-003</b>	<b>0.0508</b>	<b>0.0427</b>	<b>3.0000e-004</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>			<b>60.9818</b>	<b>1.1700e-003</b>	<b>1.1200e-003</b>	<b>61.3442</b>

**6.0 Area Detail**

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Unmitigated	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264

**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	0.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0700e-003	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
<b>Total</b>	<b>0.2710</b>	<b>1.1000e-004</b>	<b>0.0116</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>0.0248</b>	<b>6.0000e-005</b>		<b>0.0264</b>

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0700e-003	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
<b>Total</b>	<b>0.2710</b>	<b>1.1000e-004</b>	<b>0.0116</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>0.0248</b>	<b>6.0000e-005</b>		<b>0.0264</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Tahoe Cross Country Ski Lodge Site D - Placer-Lake Tahoe County, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

**Tahoe Cross Country Ski Lodge Site A**  
**Placer-Lake Tahoe County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.03	1000sqft	0.07	3,030.00	0
Parking Lot	100.00	Space	0.90	59,624.00	0
Health Club	10.15	1000sqft	0.23	10,150.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

Project Characteristics - Climate Zone Based on 96145 zip code. Liberty Utility emissions factors based on CAMX region eGRID 2014v2 values:  
[https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf).

Land Use - Land uses reflect 100 new parking spaces and driveway (59,624 sf total), 3,030 sf of basement, and 10,154 sf of building.

Construction Phase - Site A includes demolition of the existing lodge. Construction would commence May 1 2020 thru early 2023. Construction would be limited to 5 days a week.

Off-road Equipment - Addition of one excavator during site preparation for basement.

Demolition - Includes demolition of existing lodge

Architectural Coating - Consistent with PCAPCD Rule 218

Vehicle Trips - Adjusted to reflect VMT value of 487,000

Energy Use - Adjusted to reflect a 30 percent reduction associated with nonresidential 2019 Title 24 1.15

Water And Wastewater - CalEEMod Defaults

Solid Waste - CalEEMod Defaults

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	200.00	650.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	NumDays	4.00	16.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	PhaseEndDate	4/9/2021	7/12/2023
tblConstructionPhase	PhaseEndDate	3/12/2021	3/22/2023
tblConstructionPhase	PhaseEndDate	5/28/2020	8/20/2020
tblConstructionPhase	PhaseEndDate	6/5/2020	9/23/2020
tblConstructionPhase	PhaseEndDate	3/26/2021	5/17/2023
tblConstructionPhase	PhaseEndDate	6/1/2020	9/1/2020
tblConstructionPhase	PhaseStartDate	3/27/2021	5/18/2023
tblConstructionPhase	PhaseStartDate	6/6/2020	9/24/2020
tblConstructionPhase	PhaseStartDate	6/2/2020	9/2/2020
tblConstructionPhase	PhaseStartDate	3/13/2021	3/23/2023
tblConstructionPhase	PhaseStartDate	5/29/2020	8/21/2020
tblGrading	AcresOfGrading	6.00	1.50
tblGrading	AcresOfGrading	4.00	1.00
tblLandUse	LandUseSquareFeet	40,000.00	59,624.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**



Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1843	1.6134	1.2110	2.2500e-003	0.0835	0.0835	0.1669	0.0381	0.0787	0.1169			193.9732	0.0398	0.0000	194.9681
2021	0.2594	1.9575	1.8534	3.7500e-003	0.0586	0.0900	0.1486	0.0158	0.0869	0.1027			317.4627	0.0452	0.0000	318.5921
2022	0.2357	1.7933	1.8108	3.7100e-003	0.0584	0.0772	0.1356	0.0158	0.0745	0.0903			314.4742	0.0438	0.0000	315.5688
2023	0.1237	0.5227	0.6209	1.1900e-003	0.0177	0.0226	0.0403	4.7500e-003	0.0216	0.0264			101.8632	0.0173	0.0000	102.2944
<b>Maximum</b>	<b>0.2594</b>	<b>1.9575</b>	<b>1.8534</b>	<b>3.7500e-003</b>	<b>0.0835</b>	<b>0.0900</b>	<b>0.1669</b>	<b>0.0381</b>	<b>0.0869</b>	<b>0.1169</b>			<b>317.4627</b>	<b>0.0452</b>	<b>0.0000</b>	<b>318.5921</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					
2020	0.1843	1.6134	1.2110	2.2500e-003	0.0835	0.0835	0.1669	0.0381	0.0787	0.1169			193.9730	0.0398	0.0000	194.9679
2021	0.2594	1.9575	1.8534	3.7500e-003	0.0586	0.0900	0.1486	0.0158	0.0869	0.1027			317.4624	0.0452	0.0000	318.5918
2022	0.2357	1.7933	1.8108	3.7100e-003	0.0584	0.0772	0.1356	0.0158	0.0745	0.0903			314.4740	0.0438	0.0000	315.5685
2023	0.1237	0.5227	0.6209	1.1900e-003	0.0177	0.0226	0.0403	4.7500e-003	0.0216	0.0264			101.8632	0.0173	0.0000	102.2943
<b>Maximum</b>	<b>0.2594</b>	<b>1.9575</b>	<b>1.8534</b>	<b>3.7500e-003</b>	<b>0.0835</b>	<b>0.0900</b>	<b>0.1669</b>	<b>0.0381</b>	<b>0.0869</b>	<b>0.1169</b>			<b>317.4624</b>	<b>0.0452</b>	<b>0.0000</b>	<b>318.5918</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	5-1-2020	7-31-2020	0.7631	0.7631
2	8-1-2020	10-31-2020	0.6326	0.6326
3	11-1-2020	1-31-2021	0.5917	0.5917
4	2-1-2021	4-30-2021	0.5402	0.5402
5	5-1-2021	7-31-2021	0.5577	0.5577
6	8-1-2021	10-31-2021	0.5580	0.5580
7	11-1-2021	1-31-2022	0.5435	0.5435
8	2-1-2022	4-30-2022	0.4963	0.4963

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9	5-1-2022	7-31-2022	0.5124	0.5124
10	8-1-2022	10-31-2022	0.5127	0.5127
11	11-1-2022	1-31-2023	0.5007	0.5007
12	2-1-2023	4-30-2023	0.3564	0.3564
13	5-1-2023	7-31-2023	0.1291	0.1291
		Highest	0.7631	0.7631

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	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Energy	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			54.3009	1.9300e-003	3.8000e-004	54.4620
Mobile	0.0712	0.4682	0.7104	2.7900e-003	0.2053	1.9800e-003	0.2073	0.0552	1.8500e-003	0.0571			257.3904	9.8900e-003	0.0000	257.6376
Waste						0.0000	0.0000		0.0000	0.0000			11.7451	0.6941	0.0000	29.0979
Water						0.0000	0.0000		0.0000	0.0000			2.0708	0.0196	4.7000e-004	2.7018
<b>Total</b>	<b>0.1215</b>	<b>0.4775</b>	<b>0.7193</b>	<b>2.8500e-003</b>	<b>0.2053</b>	<b>2.6800e-003</b>	<b>0.2080</b>	<b>0.0552</b>	<b>2.5500e-003</b>	<b>0.0578</b>			<b>325.5091</b>	<b>0.7256</b>	<b>8.5000e-004</b>	<b>343.9014</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Energy	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			54.3009	1.9300e-003	3.8000e-004	54.4620
Mobile	0.0712	0.4682	0.7104	2.7900e-003	0.2053	1.9800e-003	0.2073	0.0552	1.8500e-003	0.0571			257.3904	9.8900e-003	0.0000	257.6376
Waste						0.0000	0.0000		0.0000	0.0000			11.7451	0.6941	0.0000	29.0979
Water						0.0000	0.0000		0.0000	0.0000			2.0708	0.0196	4.7000e-004	2.7018
<b>Total</b>	<b>0.1215</b>	<b>0.4775</b>	<b>0.7193</b>	<b>2.8500e-003</b>	<b>0.2053</b>	<b>2.6800e-003</b>	<b>0.2080</b>	<b>0.0552</b>	<b>2.5500e-003</b>	<b>0.0578</b>			<b>325.5091</b>	<b>0.7256</b>	<b>8.5000e-004</b>	<b>343.9014</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2020	8/20/2020	5	80	
2	Site Preparation	Site Preparation	8/21/2020	9/1/2020	5	8	
3	Grading	Grading	9/2/2020	9/23/2020	5	16	
4	Building Construction	Building Construction	9/24/2020	3/22/2023	5	650	
5	Paving	Paving	3/23/2023	5/17/2023	5	40	
6	Architectural Coating	Architectural Coating	5/18/2023	7/12/2023	5	40	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.97**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,225; Non-Residential Outdoor: 5,075; Striped Parking Area: 3,759 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

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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
Architectural Coating	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	12.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3400e-003	0.0000	1.3400e-003	2.0000e-004	0.0000	2.0000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.8379	0.5863	9.6000e-004		0.0461	0.0461		0.0431	0.0431			84.2707	0.0217	0.0000	84.8122
<b>Total</b>	<b>0.0851</b>	<b>0.8379</b>	<b>0.5863</b>	<b>9.6000e-004</b>	<b>1.3400e-003</b>	<b>0.0461</b>	<b>0.0474</b>	<b>2.0000e-004</b>	<b>0.0431</b>	<b>0.0433</b>			<b>84.2707</b>	<b>0.0217</b>	<b>0.0000</b>	<b>84.8122</b>

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**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.6600e-003	2.7000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005			0.4667	2.0000e-005	0.0000	0.4671
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	2.5200e-003	1.8600e-003	0.0195	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003			5.4242	1.3000e-004	0.0000	5.4274
<b>Total</b>	<b>2.5700e-003</b>	<b>3.5200e-003</b>	<b>0.0197</b>	<b>6.0000e-005</b>	<b>6.4500e-003</b>	<b>5.0000e-005</b>	<b>6.5000e-003</b>	<b>1.7200e-003</b>	<b>5.0000e-005</b>	<b>1.7600e-003</b>			<b>5.8910</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.8946</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					1.3400e-003	0.0000	1.3400e-003	2.0000e-004	0.0000	2.0000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.8379	0.5863	9.6000e-004		0.0461	0.0461		0.0431	0.0431			84.2706	0.0217	0.0000	84.8121
<b>Total</b>	<b>0.0851</b>	<b>0.8379</b>	<b>0.5863</b>	<b>9.6000e-004</b>	<b>1.3400e-003</b>	<b>0.0461</b>	<b>0.0474</b>	<b>2.0000e-004</b>	<b>0.0431</b>	<b>0.0433</b>			<b>84.2706</b>	<b>0.0217</b>	<b>0.0000</b>	<b>84.8121</b>



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**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.6600e-003	2.7000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005			0.4667	2.0000e-005	0.0000	0.4671
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	2.5200e-003	1.8600e-003	0.0195	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003			5.4242	1.3000e-004	0.0000	5.4274
<b>Total</b>	<b>2.5700e-003</b>	<b>3.5200e-003</b>	<b>0.0197</b>	<b>6.0000e-005</b>	<b>6.4500e-003</b>	<b>5.0000e-005</b>	<b>6.5000e-003</b>	<b>1.7200e-003</b>	<b>5.0000e-005</b>	<b>1.7600e-003</b>			<b>5.8910</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.8946</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0734	0.0308	7.0000e-005		3.2800e-003	3.2800e-003		3.0200e-003	3.0200e-003			6.0506	1.9600e-003	0.0000	6.0995
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0734</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>0.0216</b>	<b>3.2800e-003</b>	<b>0.0249</b>	<b>0.0116</b>	<b>3.0200e-003</b>	<b>0.0147</b>			<b>6.0506</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.0995</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.2000e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004			0.3338	1.0000e-005	0.0000	0.3340
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>			<b>0.3338</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3340</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					0.0216	0.0000	0.0216	0.0116	0.0000	0.0116			0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0734	0.0308	7.0000e-005		3.2800e-003	3.2800e-003		3.0200e-003	3.0200e-003			6.0506	1.9600e-003	0.0000	6.0995
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0734</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>0.0216</b>	<b>3.2800e-003</b>	<b>0.0249</b>	<b>0.0116</b>	<b>3.0200e-003</b>	<b>0.0147</b>			<b>6.0506</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.0995</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.2000e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004			0.3338	1.0000e-005	0.0000	0.3340
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>			<b>0.3338</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3340</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0369	0.0000	0.0369	0.0200	0.0000	0.0200			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1207	0.0516	1.1000e-004		5.4800e-003	5.4800e-003		5.0400e-003	5.0400e-003			9.9117	3.2100e-003	0.0000	9.9918
<b>Total</b>	<b>0.0108</b>	<b>0.1207</b>	<b>0.0516</b>	<b>1.1000e-004</b>	<b>0.0369</b>	<b>5.4800e-003</b>	<b>0.0424</b>	<b>0.0200</b>	<b>5.0400e-003</b>	<b>0.0250</b>			<b>9.9117</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>9.9918</b>

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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	3.1000e-004	2.3000e-004	2.4000e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004			0.6676	2.0000e-005	0.0000	0.6680
<b>Total</b>	<b>3.1000e-004</b>	<b>2.3000e-004</b>	<b>2.4000e-003</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>			<b>0.6676</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6680</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					0.0369	0.0000	0.0369	0.0200	0.0000	0.0200			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1207	0.0516	1.1000e-004		5.4800e-003	5.4800e-003		5.0400e-003	5.0400e-003			9.9117	3.2100e-003	0.0000	9.9918
<b>Total</b>	<b>0.0108</b>	<b>0.1207</b>	<b>0.0516</b>	<b>1.1000e-004</b>	<b>0.0369</b>	<b>5.4800e-003</b>	<b>0.0424</b>	<b>0.0200</b>	<b>5.0400e-003</b>	<b>0.0250</b>			<b>9.9117</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>9.9918</b>

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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	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	3.1000e-004	2.3000e-004	2.4000e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004			0.6676	2.0000e-005	0.0000	0.6680
<b>Total</b>	<b>3.1000e-004</b>	<b>2.3000e-004</b>	<b>2.4000e-003</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>			<b>0.6676</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6680</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0721	0.5250	0.4682	7.8000e-004		0.0283	0.0283		0.0273	0.0273			64.4475	0.0120	0.0000	64.7466
<b>Total</b>	<b>0.0721</b>	<b>0.5250</b>	<b>0.4682</b>	<b>7.8000e-004</b>		<b>0.0283</b>	<b>0.0283</b>		<b>0.0273</b>	<b>0.0273</b>			<b>64.4475</b>	<b>0.0120</b>	<b>0.0000</b>	<b>64.7466</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.4900e-003	0.0487	9.5900e-003	1.2000e-004	2.5200e-003	2.0000e-004	2.7200e-003	7.3000e-004	1.9000e-004	9.2000e-004			10.9209	5.7000e-004	0.0000	10.9352
Worker	5.3400e-003	3.9400e-003	0.0412	1.3000e-004	0.0134	9.0000e-005	0.0135	3.5800e-003	8.0000e-005	3.6500e-003			11.4795	2.7000e-004	0.0000	11.4863
<b>Total</b>	<b>6.8300e-003</b>	<b>0.0527</b>	<b>0.0508</b>	<b>2.5000e-004</b>	<b>0.0160</b>	<b>2.9000e-004</b>	<b>0.0162</b>	<b>4.3100e-003</b>	<b>2.7000e-004</b>	<b>4.5700e-003</b>			<b>22.4005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.4215</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	0.0721	0.5250	0.4682	7.8000e-004		0.0283	0.0283		0.0273	0.0273			64.4474	0.0120	0.0000	64.7465
<b>Total</b>	<b>0.0721</b>	<b>0.5250</b>	<b>0.4682</b>	<b>7.8000e-004</b>		<b>0.0283</b>	<b>0.0283</b>		<b>0.0273</b>	<b>0.0273</b>			<b>64.4474</b>	<b>0.0120</b>	<b>0.0000</b>	<b>64.7465</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.4900e-003	0.0487	9.5900e-003	1.2000e-004	2.5200e-003	2.0000e-004	2.7200e-003	7.3000e-004	1.9000e-004	9.2000e-004			10.9209	5.7000e-004	0.0000	10.9352
Worker	5.3400e-003	3.9400e-003	0.0412	1.3000e-004	0.0134	9.0000e-005	0.0135	3.5800e-003	8.0000e-005	3.6500e-003			11.4795	2.7000e-004	0.0000	11.4863
<b>Total</b>	<b>6.8300e-003</b>	<b>0.0527</b>	<b>0.0508</b>	<b>2.5000e-004</b>	<b>0.0160</b>	<b>2.9000e-004</b>	<b>0.0162</b>	<b>4.3100e-003</b>	<b>2.7000e-004</b>	<b>4.5700e-003</b>			<b>22.4005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.4215</b>

**3.5 Building Construction - 2021**

**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	0.2365	1.7795	1.6834	2.8800e-003		0.0893	0.0893		0.0862	0.0862			236.9197	0.0423	0.0000	237.9771
<b>Total</b>	<b>0.2365</b>	<b>1.7795</b>	<b>1.6834</b>	<b>2.8800e-003</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0862</b>	<b>0.0862</b>			<b>236.9197</b>	<b>0.0423</b>	<b>0.0000</b>	<b>237.9771</b>

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**3.5 Building Construction - 2021**

**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	4.6000e-003	0.1650	0.0314	4.2000e-004	9.2500e-003	3.6000e-004	9.6100e-003	2.6800e-003	3.4000e-004	3.0200e-003			39.8299	1.9900e-003	0.0000	39.8796
Worker	0.0183	0.0130	0.1387	4.5000e-004	0.0494	3.1000e-004	0.0497	0.0131	2.8000e-004	0.0134			40.7131	8.9000e-004	0.0000	40.7354
<b>Total</b>	<b>0.0229</b>	<b>0.1780</b>	<b>0.1701</b>	<b>8.7000e-004</b>	<b>0.0587</b>	<b>6.7000e-004</b>	<b>0.0593</b>	<b>0.0158</b>	<b>6.2000e-004</b>	<b>0.0165</b>			<b>80.5431</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>80.6150</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	0.2365	1.7795	1.6834	2.8800e-003		0.0893	0.0893		0.0862	0.0862			236.9194	0.0423	0.0000	237.9768
<b>Total</b>	<b>0.2365</b>	<b>1.7795</b>	<b>1.6834</b>	<b>2.8800e-003</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0862</b>	<b>0.0862</b>			<b>236.9194</b>	<b>0.0423</b>	<b>0.0000</b>	<b>237.9768</b>



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**3.5 Building Construction - 2021**

**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	4.6000e-003	0.1650	0.0314	4.2000e-004	9.2500e-003	3.6000e-004	9.6100e-003	2.6800e-003	3.4000e-004	3.0200e-003			39.8299	1.9900e-003	0.0000	39.8796
Worker	0.0183	0.0130	0.1387	4.5000e-004	0.0494	3.1000e-004	0.0497	0.0131	2.8000e-004	0.0134			40.7131	8.9000e-004	0.0000	40.7354
<b>Total</b>	<b>0.0229</b>	<b>0.1780</b>	<b>0.1701</b>	<b>8.7000e-004</b>	<b>0.0587</b>	<b>6.7000e-004</b>	<b>0.0593</b>	<b>0.0158</b>	<b>6.2000e-004</b>	<b>0.0165</b>			<b>80.5431</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>80.6150</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740			236.0500	0.0411	0.0000	237.0778
<b>Total</b>	<b>0.2143</b>	<b>1.6254</b>	<b>1.6544</b>	<b>2.8700e-003</b>		<b>0.0766</b>	<b>0.0766</b>		<b>0.0740</b>	<b>0.0740</b>			<b>236.0500</b>	<b>0.0411</b>	<b>0.0000</b>	<b>237.0778</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.2600e-003	0.1562	0.0290	4.1000e-004	9.2100e-003	3.1000e-004	9.5200e-003	2.6700e-003	2.9000e-004	2.9600e-003			39.3537	1.8700e-003	0.0000	39.4005
Worker	0.0171	0.0116	0.1274	4.3000e-004	0.0492	3.0000e-004	0.0495	0.0131	2.7000e-004	0.0134			39.0706	8.0000e-004	0.0000	39.0905
<b>Total</b>	<b>0.0214</b>	<b>0.1679</b>	<b>0.1564</b>	<b>8.4000e-004</b>	<b>0.0584</b>	<b>6.1000e-004</b>	<b>0.0590</b>	<b>0.0158</b>	<b>5.6000e-004</b>	<b>0.0163</b>			<b>78.4243</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>78.4910</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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740			236.0497	0.0411	0.0000	237.0775
<b>Total</b>	<b>0.2143</b>	<b>1.6254</b>	<b>1.6544</b>	<b>2.8700e-003</b>		<b>0.0766</b>	<b>0.0766</b>		<b>0.0740</b>	<b>0.0740</b>			<b>236.0497</b>	<b>0.0411</b>	<b>0.0000</b>	<b>237.0775</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.2600e-003	0.1562	0.0290	4.1000e-004	9.2100e-003	3.1000e-004	9.5200e-003	2.6700e-003	2.9000e-004	2.9600e-003			39.3537	1.8700e-003	0.0000	39.4005
Worker	0.0171	0.0116	0.1274	4.3000e-004	0.0492	3.0000e-004	0.0495	0.0131	2.7000e-004	0.0134			39.0706	8.0000e-004	0.0000	39.0905
<b>Total</b>	<b>0.0214</b>	<b>0.1679</b>	<b>0.1564</b>	<b>8.4000e-004</b>	<b>0.0584</b>	<b>6.1000e-004</b>	<b>0.0590</b>	<b>0.0158</b>	<b>5.6000e-004</b>	<b>0.0163</b>			<b>78.4243</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>78.4910</b>

**3.5 Building Construction - 2023**

**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	0.0442	0.3396	0.3657	6.4000e-004		0.0149	0.0149		0.0144	0.0144			52.6638	8.9400e-003	0.0000	52.8873
<b>Total</b>	<b>0.0442</b>	<b>0.3396</b>	<b>0.3657</b>	<b>6.4000e-004</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0144</b>	<b>0.0144</b>			<b>52.6638</b>	<b>8.9400e-003</b>	<b>0.0000</b>	<b>52.8873</b>

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**3.5 Building Construction - 2023**

**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	7.3000e-004	0.0290	5.6100e-003	9.0000e-005	2.0500e-003	3.0000e-005	2.0800e-003	5.9000e-004	3.0000e-005	6.2000e-004			8.6210	3.1000e-004	0.0000	8.6286
Worker	3.5900e-003	2.3400e-003	0.0262	9.0000e-005	0.0110	7.0000e-005	0.0110	2.9200e-003	6.0000e-005	2.9800e-003			8.3835	1.6000e-004	0.0000	8.3875
<b>Total</b>	<b>4.3200e-003</b>	<b>0.0313</b>	<b>0.0318</b>	<b>1.8000e-004</b>	<b>0.0130</b>	<b>1.0000e-004</b>	<b>0.0131</b>	<b>3.5100e-003</b>	<b>9.0000e-005</b>	<b>3.6000e-003</b>			<b>17.0045</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>17.0161</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	0.0442	0.3396	0.3657	6.4000e-004		0.0149	0.0149		0.0144	0.0144			52.6637	8.9400e-003	0.0000	52.8873
<b>Total</b>	<b>0.0442</b>	<b>0.3396</b>	<b>0.3657</b>	<b>6.4000e-004</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0144</b>	<b>0.0144</b>			<b>52.6637</b>	<b>8.9400e-003</b>	<b>0.0000</b>	<b>52.8873</b>

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**3.5 Building Construction - 2023**

**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	7.3000e-004	0.0290	5.6100e-003	9.0000e-005	2.0500e-003	3.0000e-005	2.0800e-003	5.9000e-004	3.0000e-005	6.2000e-004			8.6210	3.1000e-004	0.0000	8.6286
Worker	3.5900e-003	2.3400e-003	0.0262	9.0000e-005	0.0110	7.0000e-005	0.0110	2.9200e-003	6.0000e-005	2.9800e-003			8.3835	1.6000e-004	0.0000	8.3875
<b>Total</b>	<b>4.3200e-003</b>	<b>0.0313</b>	<b>0.0318</b>	<b>1.8000e-004</b>	<b>0.0130</b>	<b>1.0000e-004</b>	<b>0.0131</b>	<b>3.5100e-003</b>	<b>9.0000e-005</b>	<b>3.6000e-003</b>			<b>17.0045</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>17.0161</b>

**3.6 Paving - 2023**

**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	0.0129	0.1247	0.1761	2.7000e-004		6.1700e-003	6.1700e-003		5.6900e-003	5.6900e-003			23.5449	7.4600e-003	0.0000	23.7315
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0141</b>	<b>0.1247</b>	<b>0.1761</b>	<b>2.7000e-004</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>		<b>5.6900e-003</b>	<b>5.6900e-003</b>			<b>23.5449</b>	<b>7.4600e-003</b>	<b>0.0000</b>	<b>23.7315</b>

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**3.6 Paving - 2023**

**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	1.0400e-003	6.8000e-004	7.5800e-003	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004			2.4246	5.0000e-005	0.0000	2.4258
<b>Total</b>	<b>1.0400e-003</b>	<b>6.8000e-004</b>	<b>7.5800e-003</b>	<b>3.0000e-005</b>	<b>3.1700e-003</b>	<b>2.0000e-005</b>	<b>3.1900e-003</b>	<b>8.4000e-004</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>			<b>2.4246</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.4258</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	0.0129	0.1247	0.1761	2.7000e-004		6.1700e-003	6.1700e-003		5.6900e-003	5.6900e-003			23.5448	7.4600e-003	0.0000	23.7314
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0141</b>	<b>0.1247</b>	<b>0.1761</b>	<b>2.7000e-004</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>		<b>5.6900e-003</b>	<b>5.6900e-003</b>			<b>23.5448</b>	<b>7.4600e-003</b>	<b>0.0000</b>	<b>23.7314</b>

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**3.6 Paving - 2023**

**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	1.0400e-003	6.8000e-004	7.5800e-003	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004			2.4246	5.0000e-005	0.0000	2.4258
<b>Total</b>	<b>1.0400e-003</b>	<b>6.8000e-004</b>	<b>7.5800e-003</b>	<b>3.0000e-005</b>	<b>3.1700e-003</b>	<b>2.0000e-005</b>	<b>3.1900e-003</b>	<b>8.4000e-004</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>			<b>2.4246</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.4258</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0558					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003			5.1065	3.1000e-004	0.0000	5.1142
<b>Total</b>	<b>0.0596</b>	<b>0.0261</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>			<b>5.1065</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>5.1142</b>

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**3.7 Architectural Coating - 2023**

**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	4.8000e-004	3.1000e-004	3.5000e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4700e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.1191	2.0000e-005	0.0000	1.1196
<b>Total</b>	<b>4.8000e-004</b>	<b>3.1000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>			<b>1.1191</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1196</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0558					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003			5.1065	3.1000e-004	0.0000	5.1141
<b>Total</b>	<b>0.0596</b>	<b>0.0261</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>			<b>5.1065</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>5.1141</b>



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**3.7 Architectural Coating - 2023**

**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	4.8000e-004	3.1000e-004	3.5000e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4700e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.1191	2.0000e-005	0.0000	1.1196
<b>Total</b>	<b>4.8000e-004</b>	<b>3.1000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>			<b>1.1191</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1196</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	0.0712	0.4682	0.7104	2.7900e-003	0.2053	1.9800e-003	0.2073	0.0552	1.8500e-003	0.0571			257.3904	9.8900e-003	0.0000	257.6376
Unmitigated	0.0712	0.4682	0.7104	2.7900e-003	0.2053	1.9800e-003	0.2073	0.0552	1.8500e-003	0.0571			257.3904	9.8900e-003	0.0000	257.6376

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	334.24	211.83	271.31	552,263	552,263
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	334.24	211.83	271.31	552,263	552,263

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
Health Club	14.70	6.60	6.60	16.90	64.10	19.00	52	39	9
Other Non-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

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Other Non-Asphalt Surfaces	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Parking Lot	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

**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			44.2046	1.7400e-003	1.9000e-004	44.3058
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			44.2046	1.7400e-003	1.9000e-004	44.3058
NaturalGas Mitigated	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
NaturalGas Unmitigated	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562

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**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					
Health Club	189196	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>1.0200e-003</b>	<b>9.2700e-003</b>	<b>7.7900e-003</b>	<b>6.0000e-005</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>			<b>10.0962</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.1562</b>

**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					
Health Club	189196	1.0200e-003	9.2700e-003	7.7900e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			10.0962	1.9000e-004	1.9000e-004	10.1562
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>1.0200e-003</b>	<b>9.2700e-003</b>	<b>7.7900e-003</b>	<b>6.0000e-005</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>		<b>7.0000e-004</b>	<b>7.0000e-004</b>			<b>10.0962</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.1562</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	85767.5	35.5539	1.4000e-003	1.6000e-004	35.6353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	20868.4	8.6508	3.4000e-004	4.0000e-005	8.6706
<b>Total</b>		<b>44.2046</b>	<b>1.7400e-003</b>	<b>2.0000e-004</b>	<b>44.3058</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	85767.5	35.5539	1.4000e-003	1.6000e-004	35.6353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	20868.4	8.6508	3.4000e-004	4.0000e-005	8.6706
<b>Total</b>		<b>44.2046</b>	<b>1.7400e-003</b>	<b>2.0000e-004</b>	<b>44.3058</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive 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	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
Unmitigated	0.0494	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-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	5.5800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
<b>Total</b>	<b>0.0494</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.1500e-003</b>

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**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	5.5800e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000			2.0200e-003	1.0000e-005	0.0000	2.1500e-003
<b>Total</b>	<b>0.0494</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.1500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0708	0.0196	4.7000e-004	2.7018
Unmitigated	2.0708	0.0196	4.7000e-004	2.7018

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.600303 / 0.367928	2.0708	0.0196	4.7000e-004	2.7018
Other Non-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>2.0708</b>	<b>0.0196</b>	<b>4.7000e-004</b>	<b>2.7018</b>



Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.600303 / 0.367928	2.0708	0.0196	4.7000e-004	2.7018
Other Non-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>2.0708</b>	<b>0.0196</b>	<b>4.7000e-004</b>	<b>2.7018</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.7451	0.6941	0.0000	29.0979
Unmitigated	11.7451	0.6941	0.0000	29.0979

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	57.86	11.7451	0.6941	0.0000	29.0979
Other Non-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>11.7451</b>	<b>0.6941</b>	<b>0.0000</b>	<b>29.0979</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	57.86	11.7451	0.6941	0.0000	29.0979
Other Non-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>11.7451</b>	<b>0.6941</b>	<b>0.0000</b>	<b>29.0979</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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Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Annual

## **11.0 Vegetation**

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Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**Tahoe Cross Country Ski Lodge Site A**  
**Placer-Lake Tahoe County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.03	1000sqft	0.07	3,030.00	0
Parking Lot	100.00	Space	0.90	59,624.00	0
Health Club	10.15	1000sqft	0.23	10,150.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	913.9	<b>CH4 Intensity (lb/MW hr)</b>	0.036	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

Project Characteristics - Climate Zone Based on 96145 zip code. Liberty Utility emissions factors based on CAMX region eGRID 2014v2 values:  
[https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014\\_summarytables\\_v2.pdf](https://www.epa.gov/sites/production/files/2017-02/documents/egrid2014_summarytables_v2.pdf).

Land Use - Land uses reflect 100 new parking spaces and driveway (59,624 sf total), 3,030 sf of basement, and 10,154 sf of building.

Construction Phase - Site A includes demolition of the existing lodge. Construction would commence May 1 2020 thru early 2023. Construction would be limited to 5 days a week.

Off-road Equipment - Addition of one excavator during site preparation for basement.

Demolition - Includes demolition of existing lodge

Architectural Coating - Consistent with PCAPCD Rule 218

Vehicle Trips - Adjusted to reflect VMT value of 487,000

Energy Use - Adjusted to reflect a 30 percent reduction associated with nonresidential 2019 Title 24 1.15

Water And Wastewater - CalEEMod Defaults

Solid Waste - CalEEMod Defaults

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	200.00	650.00
tblConstructionPhase	NumDays	20.00	80.00
tblConstructionPhase	NumDays	4.00	16.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	PhaseEndDate	4/9/2021	7/12/2023
tblConstructionPhase	PhaseEndDate	3/12/2021	3/22/2023
tblConstructionPhase	PhaseEndDate	5/28/2020	8/20/2020
tblConstructionPhase	PhaseEndDate	6/5/2020	9/23/2020
tblConstructionPhase	PhaseEndDate	3/26/2021	5/17/2023
tblConstructionPhase	PhaseEndDate	6/1/2020	9/1/2020
tblConstructionPhase	PhaseStartDate	3/27/2021	5/18/2023
tblConstructionPhase	PhaseStartDate	6/6/2020	9/24/2020
tblConstructionPhase	PhaseStartDate	6/2/2020	9/2/2020
tblConstructionPhase	PhaseStartDate	3/13/2021	3/23/2023
tblConstructionPhase	PhaseStartDate	5/29/2020	8/21/2020
tblGrading	AcresOfGrading	6.00	1.50
tblGrading	AcresOfGrading	4.00	1.00
tblLandUse	LandUseSquareFeet	40,000.00	59,624.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.036
tblProjectCharacteristics	CO2IntensityFactor	0	913.9
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2342	21.0278	15.2266	0.0293	5.5041	1.1536	6.3257	2.9379	1.0772	3.6937			2,736.3139	0.6013	0.0000	2,746.2528
2021	1.9985	14.9741	14.3498	0.0291	0.4695	0.6894	1.1589	0.1262	0.6655	0.7917			2,719.9290	0.3815	0.0000	2,729.4651
2022	1.8227	13.7719	14.0694	0.0289	0.4695	0.5935	1.0629	0.1262	0.5732	0.6993			2,703.6755	0.3711	0.0000	2,712.9524
2023	3.0054	12.7735	13.8436	0.0287	0.4695	0.5178	0.9872	0.1262	0.4999	0.6260			2,683.9625	0.4142	0.0000	2,692.9035
<b>Maximum</b>	<b>3.0054</b>	<b>21.0278</b>	<b>15.2266</b>	<b>0.0293</b>	<b>5.5041</b>	<b>1.1536</b>	<b>6.3257</b>	<b>2.9379</b>	<b>1.0772</b>	<b>3.6937</b>			<b>2,736.3139</b>	<b>0.6013</b>	<b>0.0000</b>	<b>2,746.2528</b>





Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Energy	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Mobile	0.5282	2.7406	4.4392	0.0177	1.2805	0.0118	1.2923	0.3432	0.0110	0.3542			1,799.3576	0.0641		1,800.9589
<b>Total</b>	<b>0.8049</b>	<b>2.7915</b>	<b>4.4934</b>	<b>0.0180</b>	<b>1.2805</b>	<b>0.0157</b>	<b>1.2962</b>	<b>0.3432</b>	<b>0.0149</b>	<b>0.3581</b>			<b>1,860.3641</b>	<b>0.0653</b>	<b>1.1200e-003</b>	<b>1,862.3295</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	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Energy	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Mobile	0.5282	2.7406	4.4392	0.0177	1.2805	0.0118	1.2923	0.3432	0.0110	0.3542			1,799.3576	0.0641		1,800.9589
<b>Total</b>	<b>0.8049</b>	<b>2.7915</b>	<b>4.4934</b>	<b>0.0180</b>	<b>1.2805</b>	<b>0.0157</b>	<b>1.2962</b>	<b>0.3432</b>	<b>0.0149</b>	<b>0.3581</b>			<b>1,860.3641</b>	<b>0.0653</b>	<b>1.1200e-003</b>	<b>1,862.3295</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2020	8/20/2020	5	80	
2	Site Preparation	Site Preparation	8/21/2020	9/1/2020	5	8	
3	Grading	Grading	9/2/2020	9/23/2020	5	16	
4	Building Construction	Building Construction	9/24/2020	3/22/2023	5	650	
5	Paving	Paving	3/23/2023	5/17/2023	5	40	
6	Architectural Coating	Architectural Coating	5/18/2023	7/12/2023	5	40	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.97

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,225; Non-Residential Outdoor: 5,075; Striped Parking Area: 3,759 (Architectural Coating – sqft)

#### OffRoad Equipment

## Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	6.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	12.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0335	0.0000	0.0335	5.0700e-003	0.0000	5.0700e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761			2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0335</b>	<b>1.1525</b>	<b>1.1860</b>	<b>5.0700e-003</b>	<b>1.0761</b>	<b>1.0812</b>			<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1900e-003	0.0406	6.4000e-003	1.2000e-004	2.6200e-003	1.4000e-004	2.7700e-003	7.2000e-004	1.4000e-004	8.6000e-004			12.9887	4.1000e-004		12.9989
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0683	0.0410	0.5630	1.6400e-003	0.1661	1.0100e-003	0.1671	0.0440	9.3000e-004	0.0450			163.8968	3.9100e-003		163.9945
<b>Total</b>	<b>0.0695</b>	<b>0.0815</b>	<b>0.5694</b>	<b>1.7600e-003</b>	<b>0.1687</b>	<b>1.1500e-003</b>	<b>0.1698</b>	<b>0.0448</b>	<b>1.0700e-003</b>	<b>0.0458</b>			<b>176.8855</b>	<b>4.3200e-003</b>		<b>176.9935</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0335	0.0000	0.0335	5.0700e-003	0.0000	5.0700e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761			2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0335</b>	<b>1.1525</b>	<b>1.1860</b>	<b>5.0700e-003</b>	<b>1.0761</b>	<b>1.0812</b>			<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1900e-003	0.0406	6.4000e-003	1.2000e-004	2.6200e-003	1.4000e-004	2.7700e-003	7.2000e-004	1.4000e-004	8.6000e-004			12.9887	4.1000e-004		12.9989
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0683	0.0410	0.5630	1.6400e-003	0.1661	1.0100e-003	0.1671	0.0440	9.3000e-004	0.0450			163.8968	3.9100e-003		163.9945
<b>Total</b>	<b>0.0695</b>	<b>0.0815</b>	<b>0.5694</b>	<b>1.7600e-003</b>	<b>0.1687</b>	<b>1.1500e-003</b>	<b>0.1698</b>	<b>0.0448</b>	<b>1.0700e-003</b>	<b>0.0458</b>			<b>176.8855</b>	<b>4.3200e-003</b>		<b>176.9935</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4019	0.0000	5.4019	2.9108	0.0000	2.9108			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553			1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.4019</b>	<b>0.8210</b>	<b>6.2228</b>	<b>2.9108</b>	<b>0.7553</b>	<b>3.6660</b>			<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4019	0.0000	5.4019	2.9108	0.0000	2.9108			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553			1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.4019</b>	<b>0.8210</b>	<b>6.2228</b>	<b>2.9108</b>	<b>0.7553</b>	<b>3.6660</b>			<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>



Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6160	0.0000	4.6160	2.4934	0.0000	2.4934			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296			1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.6160</b>	<b>0.6844</b>	<b>5.3004</b>	<b>2.4934</b>	<b>0.6296</b>	<b>3.1230</b>			<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6160	0.0000	4.6160	2.4934	0.0000	2.4934			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296			1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.6160</b>	<b>0.6844</b>	<b>5.3004</b>	<b>2.4934</b>	<b>0.6296</b>	<b>3.1230</b>			<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0420	0.0252	0.3464	1.0100e-003	0.1022	6.2000e-004	0.1028	0.0271	5.7000e-004	0.0277			100.8596	2.4100e-003		100.9197
<b>Total</b>	<b>0.0420</b>	<b>0.0252</b>	<b>0.3464</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>6.2000e-004</b>	<b>0.1028</b>	<b>0.0271</b>	<b>5.7000e-004</b>	<b>0.0277</b>			<b>100.8596</b>	<b>2.4100e-003</b>		<b>100.9197</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688			2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>			<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0408	1.3544	0.2445	3.2900e-003	0.0735	5.6300e-003	0.0791	0.0212	5.3800e-003	0.0266			344.3237	0.0167		344.7422
Worker	0.1628	0.0977	1.3425	3.9200e-003	0.3960	2.4100e-003	0.3984	0.1050	2.2200e-003	0.1072			390.8308	9.3200e-003		391.0638
<b>Total</b>	<b>0.2037</b>	<b>1.4521</b>	<b>1.5870</b>	<b>7.2100e-003</b>	<b>0.4695</b>	<b>8.0400e-003</b>	<b>0.4775</b>	<b>0.1262</b>	<b>7.6000e-003</b>	<b>0.1338</b>			<b>735.1544</b>	<b>0.0261</b>		<b>735.8060</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688			2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>			<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0408	1.3544	0.2445	3.2900e-003	0.0735	5.6300e-003	0.0791	0.0212	5.3800e-003	0.0266			344.3237	0.0167		344.7422
Worker	0.1628	0.0977	1.3425	3.9200e-003	0.3960	2.4100e-003	0.3984	0.1050	2.2200e-003	0.1072			390.8308	9.3200e-003		391.0638
<b>Total</b>	<b>0.2037</b>	<b>1.4521</b>	<b>1.5870</b>	<b>7.2100e-003</b>	<b>0.4695</b>	<b>8.0400e-003</b>	<b>0.4775</b>	<b>0.1262</b>	<b>7.6000e-003</b>	<b>0.1338</b>			<b>735.1544</b>	<b>0.0261</b>		<b>735.8060</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608			2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>			<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2021**

**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
Vendor	0.0343	1.2504	0.2166	3.2600e-003	0.0735	2.7000e-003	0.0762	0.0212	2.5800e-003	0.0238			341.6542	0.0158		342.0496
Worker	0.1517	0.0876	1.2338	3.7800e-003	0.3960	2.3400e-003	0.3983	0.1050	2.1600e-003	0.1072			377.0548	8.3600e-003		377.2637
<b>Total</b>	<b>0.1860</b>	<b>1.3381</b>	<b>1.4504</b>	<b>7.0400e-003</b>	<b>0.4695</b>	<b>5.0400e-003</b>	<b>0.4745</b>	<b>0.1262</b>	<b>4.7400e-003</b>	<b>0.1309</b>			<b>718.7090</b>	<b>0.0242</b>		<b>719.3134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608			2,001,220 0	0.3573		2,010,151 7
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>			<b>2,001,220 0</b>	<b>0.3573</b>		<b>2,010,151 7</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2021**

**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
Vendor	0.0343	1.2504	0.2166	3.2600e-003	0.0735	2.7000e-003	0.0762	0.0212	2.5800e-003	0.0238			341.6542	0.0158		342.0496
Worker	0.1517	0.0876	1.2338	3.7800e-003	0.3960	2.3400e-003	0.3983	0.1050	2.1600e-003	0.1072			377.0548	8.3600e-003		377.2637
<b>Total</b>	<b>0.1860</b>	<b>1.3381</b>	<b>1.4504</b>	<b>7.0400e-003</b>	<b>0.4695</b>	<b>5.0400e-003</b>	<b>0.4745</b>	<b>0.1262</b>	<b>4.7400e-003</b>	<b>0.1309</b>			<b>718.7090</b>	<b>0.0242</b>		<b>719.3134</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689			2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>			<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0319	1.1899	0.2010	3.2400e-003	0.0735	2.3000e-003	0.0758	0.0212	2.2000e-003	0.0234			338.9184	0.0150		339.2921
Worker	0.1422	0.0790	1.1420	3.6400e-003	0.3960	2.2900e-003	0.3983	0.1050	2.1100e-003	0.1071			363.2143	7.5200e-003		363.4023
<b>Total</b>	<b>0.1741</b>	<b>1.2689</b>	<b>1.3430</b>	<b>6.8800e-003</b>	<b>0.4695</b>	<b>4.5900e-003</b>	<b>0.4741</b>	<b>0.1262</b>	<b>4.3100e-003</b>	<b>0.1305</b>			<b>702.1326</b>	<b>0.0225</b>		<b>702.6944</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689			2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>			<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>



Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0319	1.1899	0.2010	3.2400e-003	0.0735	2.3000e-003	0.0758	0.0212	2.2000e-003	0.0234			338.9184	0.0150		339.2921
Worker	0.1422	0.0790	1.1420	3.6400e-003	0.3960	2.2900e-003	0.3983	0.1050	2.1100e-003	0.1071			363.2143	7.5200e-003		363.4023
<b>Total</b>	<b>0.1741</b>	<b>1.2689</b>	<b>1.3430</b>	<b>6.8800e-003</b>	<b>0.4695</b>	<b>4.5900e-003</b>	<b>0.4741</b>	<b>0.1262</b>	<b>4.3100e-003</b>	<b>0.1305</b>			<b>702.1326</b>	<b>0.0225</b>		<b>702.6944</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968			2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>			<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2023**

**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
Vendor	0.0243	0.9919	0.1758	3.1800e-003	0.0735	1.0100e-003	0.0745	0.0212	9.7000e-004	0.0221			332.8247	0.0110		333.0987
Worker	0.1336	0.0713	1.0568	3.5000e-003	0.3960	2.2400e-003	0.3982	0.1050	2.0700e-003	0.1071			349.3502	6.7600e-003		349.5191
<b>Total</b>	<b>0.1579</b>	<b>1.0632</b>	<b>1.2325</b>	<b>6.6800e-003</b>	<b>0.4695</b>	<b>3.2500e-003</b>	<b>0.4727</b>	<b>0.1262</b>	<b>3.0400e-003</b>	<b>0.1292</b>			<b>682.1748</b>	<b>0.0177</b>		<b>682.6178</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968			2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>			<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.5 Building Construction - 2023**

**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
Vendor	0.0243	0.9919	0.1758	3.1800e-003	0.0735	1.0100e-003	0.0745	0.0212	9.7000e-004	0.0221			332.8247	0.0110		333.0987
Worker	0.1336	0.0713	1.0568	3.5000e-003	0.3960	2.2400e-003	0.3982	0.1050	2.0700e-003	0.1071			349.3502	6.7600e-003		349.5191
<b>Total</b>	<b>0.1579</b>	<b>1.0632</b>	<b>1.2325</b>	<b>6.6800e-003</b>	<b>0.4695</b>	<b>3.2500e-003</b>	<b>0.4727</b>	<b>0.1262</b>	<b>3.0400e-003</b>	<b>0.1292</b>			<b>682.1748</b>	<b>0.0177</b>		<b>682.6178</b>

**3.6 Paving - 2023**

**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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846			1,297.6880	0.4114		1,307.9725
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7036</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>			<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.6 Paving - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0560	0.0299	0.4432	1.4700e-003	0.1661	9.4000e-004	0.1670	0.0440	8.7000e-004	0.0449			146.5017	2.8300e-003		146.5725
<b>Total</b>	<b>0.0560</b>	<b>0.0299</b>	<b>0.4432</b>	<b>1.4700e-003</b>	<b>0.1661</b>	<b>9.4000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.7000e-004</b>	<b>0.0449</b>			<b>146.5017</b>	<b>2.8300e-003</b>		<b>146.5725</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846			1,297.6880	0.4114		1,307.9725
Paving	0.0590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7036</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>			<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.6 Paving - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0560	0.0299	0.4432	1.4700e-003	0.1661	9.4000e-004	0.1670	0.0440	8.7000e-004	0.0449			146.5017	2.8300e-003		146.5725
<b>Total</b>	<b>0.0560</b>	<b>0.0299</b>	<b>0.4432</b>	<b>1.4700e-003</b>	<b>0.1661</b>	<b>9.4000e-004</b>	<b>0.1670</b>	<b>0.0440</b>	<b>8.7000e-004</b>	<b>0.0449</b>			<b>146.5017</b>	<b>2.8300e-003</b>		<b>146.5725</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
<b>Total</b>	<b>2.9795</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>			<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.7 Architectural Coating - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0259	0.0138	0.2045	6.8000e-004	0.0766	4.3000e-004	0.0771	0.0203	4.0000e-004	0.0207			67.6162	1.3100e-003		67.6489
<b>Total</b>	<b>0.0259</b>	<b>0.0138</b>	<b>0.2045</b>	<b>6.8000e-004</b>	<b>0.0766</b>	<b>4.3000e-004</b>	<b>0.0771</b>	<b>0.0203</b>	<b>4.0000e-004</b>	<b>0.0207</b>			<b>67.6162</b>	<b>1.3100e-003</b>		<b>67.6489</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
<b>Total</b>	<b>2.9795</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>			<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**3.7 Architectural Coating - 2023**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0259	0.0138	0.2045	6.8000e-004	0.0766	4.3000e-004	0.0771	0.0203	4.0000e-004	0.0207			67.6162	1.3100e-003		67.6489
<b>Total</b>	<b>0.0259</b>	<b>0.0138</b>	<b>0.2045</b>	<b>6.8000e-004</b>	<b>0.0766</b>	<b>4.3000e-004</b>	<b>0.0771</b>	<b>0.0203</b>	<b>4.0000e-004</b>	<b>0.0207</b>			<b>67.6162</b>	<b>1.3100e-003</b>		<b>67.6489</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5282	2.7406	4.4392	0.0177	1.2805	0.0118	1.2923	0.3432	0.0110	0.3542			1,799.3576	0.0641		1,800.9589
Unmitigated	0.5282	2.7406	4.4392	0.0177	1.2805	0.0118	1.2923	0.3432	0.0110	0.3542			1,799.3576	0.0641		1,800.9589

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	334.24	211.83	271.31	552,263	552,263
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	334.24	211.83	271.31	552,263	552,263

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
Health Club	14.70	6.60	6.60	16.90	64.10	19.00	52	39	9
Other Non-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



Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Other Non-Asphalt Surfaces	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
Parking Lot	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

**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	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
NaturalGas Unmitigated	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	518.345	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>5.5900e-003</b>	<b>0.0508</b>	<b>0.0427</b>	<b>3.0000e-004</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>			<b>60.9818</b>	<b>1.1700e-003</b>	<b>1.1200e-003</b>	<b>61.3442</b>

**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					
Health Club	0.518345	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003			60.9818	1.1700e-003	1.1200e-003	61.3442
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
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>5.5900e-003</b>	<b>0.0508</b>	<b>0.0427</b>	<b>3.0000e-004</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>			<b>60.9818</b>	<b>1.1700e-003</b>	<b>1.1200e-003</b>	<b>61.3442</b>

**6.0 Area Detail**

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
Unmitigated	0.2710	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264

**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	0.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0700e-003	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
<b>Total</b>	<b>0.2710</b>	<b>1.1000e-004</b>	<b>0.0116</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>0.0248</b>	<b>6.0000e-005</b>		<b>0.0264</b>

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0700e-003	1.1000e-004	0.0116	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			0.0248	6.0000e-005		0.0264
<b>Total</b>	<b>0.2710</b>	<b>1.1000e-004</b>	<b>0.0116</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>0.0248</b>	<b>6.0000e-005</b>		<b>0.0264</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Tahoe Cross Country Ski Lodge Site A - Placer-Lake Tahoe County, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Tahoe Cross-Country Lodge  
Annual VMT Calcs**

From LSC:

Summer 1-Way Daily VMT (one event):	1,993	Per LSC, this # reflects one up to 80 person private gathering
Summer Event Day PM Peak-Hour Trips:	108	
Winter Weekend Day PM Peak-Hour Trips:	58	
Winter Week Day PM Peak-Hour Trips:	55	

Total events 115

(from PD, Table 2-3)

~ 50% of events happen during summer and 50% during winter

Because the # of trips without an event are roughly equivalent (difference of 2 trips/PM peak hour), the summer daily VMT for an event day is used for both seasons.

Ascent Calcs:

Est. Summer PM Peak Hour Trip Gen minus events:	56	
Est. Annual VMT associated with event days:	229,195	- Assumes 115 event days
Est. Number of Days with Events:	115	- Assumes max days if all events on different days
Est. Number of Summer Days w/o Events:	125	
Est. Number of Winter Days:	125	
Est. Summer VMT w/o Events:	1,033	
Est. Winter Weekend Day VMT w/o Events:	1,070	
Est. Winter Week Day VMT w/o Events:	1,015	
Fraction of Winter Days that are Weekend Days:	0.29	
Fraction of Winter Days that are Week Days:	0.71	
Est. Annual VMT associated with Summer non-event days:	129,176	
Est. Annual VMT associated with Winter non-event days:	128,846	
<b>Est. Annual VMT:</b>	<b>487,217</b>	
<b>Ave. Daily VMT</b>	<b>1,335</b>	