

## **APPENDIX A**

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### **Air Quality and Greenhouse Gases Support Information**

**Walker Creek**  
Great Basin UAPCD Air District, Annual

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.15	Acre	0.15	6,664.68	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	7			<b>Operational Year</b>	2014
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - 0.153 Paved area

Construction Phase - grad 8/1/18 - 8/17/18 const 8/18/18 - 12/31/18 pav 8/18/18 - 8/24/18 coat 12/17/18 - 12/31/18

Off-road Equipment -

Off-road Equipment - 2 cranes, 1 front end loader (rough terrain forklift); 1 flatbed trucks (off highway truck) 8 hr, 6 worker vehicles (other const equip) 2 hr/day

Off-road Equipment - 1 gradall (tractor etc); 1 motorgrader (grader); 2 excavators, 6 worker vehicles (other const equip) 2 hours; 1 water truck (off highway truck) 8 hours

Off-road Equipment - 5 dump trucks (Dumper), 4 concrete trucks (cement and motar mixers) 4 hours; 1 roller; 1 asphalt truck (off highway truck)

Trips and VMT - grading 24 mile haulign trip length, 1 mile other phases

On-road Fugitive Dust -

Grading - 3,190 cy cut, 2,080 fill, 1.4 acres disturbed

Architectural Coating - 0 sf interior, 6,665 sf exterior

Construction Off-road Equipment Mitigation - water 3x

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,332.00	6,665.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,997.00	0.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	100.00	96.00
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	PhaseEndDate	9/10/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	1/7/2019	8/24/2018
tblConstructionPhase	PhaseStartDate	8/25/2018	12/17/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	8/18/2018
tblGrading	AcresOfGrading	6.50	1.40
tblGrading	MaterialExported	0.00	3,190.00
tblGrading	MaterialImported	0.00	2,080.00
tblLandUse	LandUseSquareFeet	6,534.00	6,664.68
tblOffRoadEquipment	HorsePower	16.00	97.00

tblOffRoadEquipment	HorsePower	162.00	255.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	100.00	89.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.40	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00

## 2.0 Emissions Summary

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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	0.0338	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0338</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2018	8/17/2018	5	13	
2	Building Construction	Building Construction	8/18/2018	12/31/2018	5	96	
3	Paving	Paving	8/18/2018	8/24/2018	5	5	
4	Architectural Coating	Architectural Coating	12/17/2018	12/31/2018	5	11	

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

**Acres of Grading (Grading Phase): 1.4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,665 (Architectural Coating – sqft)**

**OffRoad Equipment**



Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	1.00	255	0.40
Grading	Graders	1	8.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	400	0.38
Grading	Other Construction Equipment	6	2.00	171	0.42
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	2	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	8.00	400	0.38
Building Construction	Other Construction Equipment	6	2.00	171	0.42
Building Construction	Rough Terrain Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	4.00	9	0.56
Paving	Dumpers/Tenders	1	7.00	97	0.37
Paving	Off-Highway Trucks	1	8.00	400	0.38
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	12	30.00	0.00	659.00	10.80	7.30	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	3.00	1.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT
Paving	9	23.00	0.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.9300e-003	0.0000	5.9300e-003	2.8100e-003	0.0000	2.8100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.2211	0.1439	2.5000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	22.4550	22.4550	6.1700e-003	0.0000	22.5846
<b>Total</b>	<b>0.0235</b>	<b>0.2211</b>	<b>0.1439</b>	<b>2.5000e-004</b>	<b>5.9300e-003</b>	<b>0.0130</b>	<b>0.0189</b>	<b>2.8100e-003</b>	<b>0.0121</b>	<b>0.0149</b>	<b>0.0000</b>	<b>22.4550</b>	<b>22.4550</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>22.5846</b>

### 3.2 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7600e-003	0.0758	0.1210	2.9000e-004	6.7200e-003	1.3000e-003	8.0200e-003	1.8500e-003	1.2000e-003	3.0400e-003	0.0000	25.7193	25.7193	1.7000e-004	0.0000	25.7229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	1.3900e-003	0.0131	2.0000e-005	1.5500e-003	2.0000e-005	1.5700e-003	4.1000e-004	1.0000e-005	4.3000e-004	0.0000	1.3227	1.3227	9.0000e-005	0.0000	1.3247
<b>Total</b>	<b>9.7800e-003</b>	<b>0.0772</b>	<b>0.1341</b>	<b>3.1000e-004</b>	<b>8.2700e-003</b>	<b>1.3200e-003</b>	<b>9.5900e-003</b>	<b>2.2600e-003</b>	<b>1.2100e-003</b>	<b>3.4700e-003</b>	<b>0.0000</b>	<b>27.0420</b>	<b>27.0420</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>27.0476</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					2.3100e-003	0.0000	2.3100e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.2211	0.1439	2.5000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	22.4550	22.4550	6.1700e-003	0.0000	22.5846
<b>Total</b>	<b>0.0235</b>	<b>0.2211</b>	<b>0.1439</b>	<b>2.5000e-004</b>	<b>2.3100e-003</b>	<b>0.0130</b>	<b>0.0153</b>	<b>1.1000e-003</b>	<b>0.0121</b>	<b>0.0132</b>	<b>0.0000</b>	<b>22.4550</b>	<b>22.4550</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>22.5846</b>

### 3.2 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7600e-003	0.0758	0.1210	2.9000e-004	6.7200e-003	1.3000e-003	8.0200e-003	1.8500e-003	1.2000e-003	3.0400e-003	0.0000	25.7193	25.7193	1.7000e-004	0.0000	25.7229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	1.3900e-003	0.0131	2.0000e-005	1.5500e-003	2.0000e-005	1.5700e-003	4.1000e-004	1.0000e-005	4.3000e-004	0.0000	1.3227	1.3227	9.0000e-005	0.0000	1.3247
<b>Total</b>	<b>9.7800e-003</b>	<b>0.0772</b>	<b>0.1341</b>	<b>3.1000e-004</b>	<b>8.2700e-003</b>	<b>1.3200e-003</b>	<b>9.5900e-003</b>	<b>2.2600e-003</b>	<b>1.2100e-003</b>	<b>3.4700e-003</b>	<b>0.0000</b>	<b>27.0420</b>	<b>27.0420</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>27.0476</b>

### 3.3 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1469	1.5817	1.0022	1.8600e-003		0.0812	0.0812		0.0747	0.0747	0.0000	170.0762	170.0762	0.0530	0.0000	171.1881
<b>Total</b>	<b>0.1469</b>	<b>1.5817</b>	<b>1.0022</b>	<b>1.8600e-003</b>		<b>0.0812</b>	<b>0.0812</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>170.0762</b>	<b>170.0762</b>	<b>0.0530</b>	<b>0.0000</b>	<b>171.1881</b>

### 3.3 Building Construction - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-004	3.7300e-003	9.5300e-003	1.0000e-005	3.1000e-004	6.0000e-005	3.7000e-004	9.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9774	0.9774	1.0000e-005	0.0000	0.9775
Worker	7.6000e-004	1.0300e-003	9.6500e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1600e-003	3.0000e-004	1.0000e-005	3.2000e-004	0.0000	0.9768	0.9768	7.0000e-005	0.0000	0.9782
<b>Total</b>	<b>1.4300e-003</b>	<b>4.7600e-003</b>	<b>0.0192</b>	<b>2.0000e-005</b>	<b>1.4500e-003</b>	<b>7.0000e-005</b>	<b>1.5300e-003</b>	<b>3.9000e-004</b>	<b>6.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.9542</b>	<b>1.9542</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.9558</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	0.1469	1.5817	1.0022	1.8600e-003		0.0812	0.0812		0.0747	0.0747	0.0000	170.0760	170.0760	0.0530	0.0000	171.1879
<b>Total</b>	<b>0.1469</b>	<b>1.5817</b>	<b>1.0022</b>	<b>1.8600e-003</b>		<b>0.0812</b>	<b>0.0812</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>170.0760</b>	<b>170.0760</b>	<b>0.0530</b>	<b>0.0000</b>	<b>171.1879</b>

**3.3 Building Construction - 2018****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-004	3.7300e-003	9.5300e-003	1.0000e-005	3.1000e-004	6.0000e-005	3.7000e-004	9.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9774	0.9774	1.0000e-005	0.0000	0.9775
Worker	7.6000e-004	1.0300e-003	9.6500e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1600e-003	3.0000e-004	1.0000e-005	3.2000e-004	0.0000	0.9768	0.9768	7.0000e-005	0.0000	0.9782
<b>Total</b>	<b>1.4300e-003</b>	<b>4.7600e-003</b>	<b>0.0192</b>	<b>2.0000e-005</b>	<b>1.4500e-003</b>	<b>7.0000e-005</b>	<b>1.5300e-003</b>	<b>3.9000e-004</b>	<b>6.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.9542</b>	<b>1.9542</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.9558</b>

**3.4 Paving - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0500e-003	0.0414	0.0275	6.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	5.2769	5.2769	1.6000e-003	0.0000	5.3104
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.2500e-003</b>	<b>0.0414</b>	<b>0.0275</b>	<b>6.0000e-005</b>		<b>1.9800e-003</b>	<b>1.9800e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>5.2769</b>	<b>5.2769</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.3104</b>

**3.4 Paving - 2018****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	4.1000e-004	3.8500e-003	1.0000e-005	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3900	0.3900	3.0000e-005	0.0000	0.3906
<b>Total</b>	<b>3.0000e-004</b>	<b>4.1000e-004</b>	<b>3.8500e-003</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3900</b>	<b>0.3900</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.3906</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	4.0500e-003	0.0414	0.0275	6.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	5.2769	5.2769	1.6000e-003	0.0000	5.3104
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.2500e-003</b>	<b>0.0414</b>	<b>0.0275</b>	<b>6.0000e-005</b>		<b>1.9800e-003</b>	<b>1.9800e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>5.2769</b>	<b>5.2769</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.3104</b>

### 3.4 Paving - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	4.1000e-004	3.8500e-003	1.0000e-005	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3900	0.3900	3.0000e-005	0.0000	0.3906
<b>Total</b>	<b>3.0000e-004</b>	<b>4.1000e-004</b>	<b>3.8500e-003</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3900</b>	<b>0.3900</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.3906</b>

### 3.5 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6400e-003	0.0110	0.0102	2.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	1.4043	1.4043	1.3000e-004	0.0000	1.4071
<b>Total</b>	<b>0.0403</b>	<b>0.0110</b>	<b>0.0102</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>1.4043</b>	<b>1.4043</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4071</b>



### 3.5 Architectural Coating - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	3.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0373	0.0373	0.0000	0.0000	0.0374
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0373</b>	<b>0.0373</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0374</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	0.0386					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6400e-003	0.0110	0.0102	2.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	1.4043	1.4043	1.3000e-004	0.0000	1.4071
<b>Total</b>	<b>0.0403</b>	<b>0.0110</b>	<b>0.0102</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>1.4043</b>	<b>1.4043</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4071</b>



**4.2 Trip Summary Information**

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

**4.3 Trip Type Information**

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.280839	0.105457	0.186358	0.169491	0.098236	0.011988	0.017132	0.108700	0.005759	0.000739	0.007473	0.001795	0.006033

**5.0 Energy Detail**

~~4.4 Fleet Mix~~

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

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



### 6.2 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	7.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0338</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### 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	7.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0338</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

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

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**Walker Creek**  
Great Basin UAPCD Air District, Summer

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.15	Acre	0.15	6,664.68	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	7			<b>Operational Year</b>	2014
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - 0.153 Paved area

Construction Phase - grad 8/1/18 - 8/17/18 const 8/18/18 - 12/31/18 pav 8/18/18 - 8/24/18 coat 12/17/18 - 12/31/18

Off-road Equipment -

Off-road Equipment - 2 cranes, 1 front end loader (rough terrain forklift); 1 flatbed trucks (off highway truck) 8 hr, 6 worker vehicles (other const equip) 2 hr/day

Off-road Equipment - 1 gradall (tractor etc); 1 motorgrader (grader); 2 excavators, 6 worker vehicles (other const equip) 2 hours; 1 water truck (off highway truck) 8 hours

Off-road Equipment - 5 dump trucks (Dumper), 4 concrete trucks (cement and motar mixers) 4 hours; 1 roller; 1 asphalt truck (off highway truck)

Trips and VMT - grading 24 mile haulign trip length, 1 mile other phases

On-road Fugitive Dust -

Grading - 3,190 cy cut, 2,080 fill, 1.4 acres disturbed

Architectural Coating - 0 sf interior, 6,665 sf exterior

Construction Off-road Equipment Mitigation - water 3x

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,332.00	6,665.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,997.00	0.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	100.00	96.00
tblConstructionPhase	NumDays	2.00	13.00
tblConstructionPhase	PhaseEndDate	9/10/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	1/7/2019	8/24/2018
tblConstructionPhase	PhaseStartDate	8/25/2018	12/17/2018
tblConstructionPhase	PhaseStartDate	1/1/2019	8/18/2018
tblGrading	AcresOfGrading	6.50	1.40
tblGrading	MaterialExported	0.00	3,190.00
tblGrading	MaterialImported	0.00	2,080.00
tblLandUse	LandUseSquareFeet	6,534.00	6,664.68
tblOffRoadEquipment	HorsePower	16.00	97.00

tblOffRoadEquipment	HorsePower	162.00	255.00
tblOffRoadEquipment	HorsePower	174.00	81.00
tblOffRoadEquipment	HorsePower	100.00	89.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.41	0.73
tblOffRoadEquipment	LoadFactor	0.40	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	24.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	1.00

## 2.0 Emissions Summary

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## 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	0.1849	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1849</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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	0.1849	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1849</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2018	8/17/2018	5	13	
2	Building Construction	Building Construction	8/18/2018	12/31/2018	5	96	
3	Paving	Paving	8/18/2018	8/24/2018	5	5	
4	Architectural Coating	Architectural Coating	12/17/2018	12/31/2018	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,665 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	1.00	255	0.40
Grading	Graders	1	8.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	400	0.38
Grading	Other Construction Equipment	6	2.00	171	0.42
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	2	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	8.00	400	0.38
Building Construction	Other Construction Equipment	6	2.00	171	0.42
Building Construction	Rough Terrain Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	4.00	9	0.56
Paving	Dumpers/Tenders	1	7.00	97	0.37
Paving	Off-Highway Trucks	1	8.00	400	0.38
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	12	30.00	0.00	659.00	10.80	7.30	24.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	3.00	1.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT
Paving	9	23.00	0.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	1.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9128	0.0000	0.9128	0.4331	0.0000	0.4331			0.0000			0.0000
Off-Road	3.6127	34.0135	22.1331	0.0382		1.9938	1.9938		1.8557	1.8557		3,808.0573	3,808.0573	1.0469		3,830.0419
<b>Total</b>	<b>3.6127</b>	<b>34.0135</b>	<b>22.1331</b>	<b>0.0382</b>	<b>0.9128</b>	<b>1.9938</b>	<b>2.9066</b>	<b>0.4331</b>	<b>1.8557</b>	<b>2.2887</b>		<b>3,808.0573</b>	<b>3,808.0573</b>	<b>1.0469</b>		<b>3,830.0419</b>

### 3.2 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1427	11.2201	12.5398	0.0447	1.0635	0.2000	1.2634	0.2915	0.1839	0.4754		4,365.2764	4,365.2764	0.0294		4,365.8937
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1603	0.1820	1.9537	3.0800e-003	0.2464	2.4000e-003	0.2488	0.0654	2.2100e-003	0.0676		234.5550	234.5550	0.0156		234.8835
<b>Total</b>	<b>1.3029</b>	<b>11.4021</b>	<b>14.4935</b>	<b>0.0478</b>	<b>1.3099</b>	<b>0.2024</b>	<b>1.5123</b>	<b>0.3569</b>	<b>0.1861</b>	<b>0.5430</b>		<b>4,599.8314</b>	<b>4,599.8314</b>	<b>0.0450</b>		<b>4,600.7772</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					0.3560	0.0000	0.3560	0.1689	0.0000	0.1689			0.0000			0.0000
Off-Road	3.6127	34.0135	22.1331	0.0382		1.9938	1.9938		1.8557	1.8557	0.0000	3,808.0573	3,808.0573	1.0469		3,830.0419
<b>Total</b>	<b>3.6127</b>	<b>34.0135</b>	<b>22.1331</b>	<b>0.0382</b>	<b>0.3560</b>	<b>1.9938</b>	<b>2.3498</b>	<b>0.1689</b>	<b>1.8557</b>	<b>2.0246</b>	<b>0.0000</b>	<b>3,808.0573</b>	<b>3,808.0573</b>	<b>1.0469</b>		<b>3,830.0419</b>

### 3.2 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1427	11.2201	12.5398	0.0447	1.0635	0.2000	1.2634	0.2915	0.1839	0.4754		4,365.276 4	4,365.276 4	0.0294		4,365.893 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1603	0.1820	1.9537	3.0800e-003	0.2464	2.4000e-003	0.2488	0.0654	2.2100e-003	0.0676		234.5550	234.5550	0.0156		234.8835
<b>Total</b>	<b>1.3029</b>	<b>11.4021</b>	<b>14.4935</b>	<b>0.0478</b>	<b>1.3099</b>	<b>0.2024</b>	<b>1.5123</b>	<b>0.3569</b>	<b>0.1861</b>	<b>0.5430</b>		<b>4,599.831 4</b>	<b>4,599.831 4</b>	<b>0.0450</b>		<b>4,600.777 2</b>

### 3.3 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0612	32.9523	20.8787	0.0388		1.6917	1.6917		1.5563	1.5563		3,905.768 7	3,905.768 7	1.2159		3,931.303 0
<b>Total</b>	<b>3.0612</b>	<b>32.9523</b>	<b>20.8787</b>	<b>0.0388</b>		<b>1.6917</b>	<b>1.6917</b>		<b>1.5563</b>	<b>1.5563</b>		<b>3,905.768 7</b>	<b>3,905.768 7</b>	<b>1.2159</b>		<b>3,931.303 0</b>

### 3.3 Building Construction - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0113	0.0750	0.1236	2.3000e-004	6.5600e-003	1.2100e-003	7.7800e-003	1.8600e-003	1.1200e-003	2.9800e-003		22.5192	22.5192	1.7000e-004		22.5227
Worker	0.0160	0.0182	0.1954	3.1000e-004	0.0246	2.4000e-004	0.0249	6.5400e-003	2.2000e-004	6.7600e-003		23.4555	23.4555	1.5600e-003		23.4884
<b>Total</b>	<b>0.0273</b>	<b>0.0932</b>	<b>0.3190</b>	<b>5.4000e-004</b>	<b>0.0312</b>	<b>1.4500e-003</b>	<b>0.0327</b>	<b>8.4000e-003</b>	<b>1.3400e-003</b>	<b>9.7400e-003</b>		<b>45.9747</b>	<b>45.9747</b>	<b>1.7300e-003</b>		<b>46.0110</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	3.0612	32.9523	20.8787	0.0388		1.6917	1.6917		1.5563	1.5563	0.0000	3,905.7687	3,905.7687	1.2159		3,931.3030
<b>Total</b>	<b>3.0612</b>	<b>32.9523</b>	<b>20.8787</b>	<b>0.0388</b>		<b>1.6917</b>	<b>1.6917</b>		<b>1.5563</b>	<b>1.5563</b>	<b>0.0000</b>	<b>3,905.7687</b>	<b>3,905.7687</b>	<b>1.2159</b>		<b>3,931.3030</b>

### 3.3 Building Construction - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0113	0.0750	0.1236	2.3000e-004	6.5600e-003	1.2100e-003	7.7800e-003	1.8600e-003	1.1200e-003	2.9800e-003		22.5192	22.5192	1.7000e-004			22.5227
Worker	0.0160	0.0182	0.1954	3.1000e-004	0.0246	2.4000e-004	0.0249	6.5400e-003	2.2000e-004	6.7600e-003		23.4555	23.4555	1.5600e-003			23.4884
<b>Total</b>	<b>0.0273</b>	<b>0.0932</b>	<b>0.3190</b>	<b>5.4000e-004</b>	<b>0.0312</b>	<b>1.4500e-003</b>	<b>0.0327</b>	<b>8.4000e-003</b>	<b>1.3400e-003</b>	<b>9.7400e-003</b>		<b>45.9747</b>	<b>45.9747</b>	<b>1.7300e-003</b>			<b>46.0110</b>

### 3.4 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6199	16.5387	10.9979	0.0235		0.7928	0.7928		0.7317	0.7317		2,326.6993	2,326.6993	0.7034			2,341.4700
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6985</b>	<b>16.5387</b>	<b>10.9979</b>	<b>0.0235</b>		<b>0.7928</b>	<b>0.7928</b>		<b>0.7317</b>	<b>0.7317</b>		<b>2,326.6993</b>	<b>2,326.6993</b>	<b>0.7034</b>			<b>2,341.4700</b>

### 3.4 Paving - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1229	0.1395	1.4978	2.3600e-003	0.1889	1.8400e-003	0.1908	0.0501	1.6900e-003	0.0518		179.8255	179.8255	0.0120			180.0774
<b>Total</b>	<b>0.1229</b>	<b>0.1395</b>	<b>1.4978</b>	<b>2.3600e-003</b>	<b>0.1889</b>	<b>1.8400e-003</b>	<b>0.1908</b>	<b>0.0501</b>	<b>1.6900e-003</b>	<b>0.0518</b>		<b>179.8255</b>	<b>179.8255</b>	<b>0.0120</b>			<b>180.0774</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	1.6199	16.5387	10.9979	0.0235		0.7928	0.7928		0.7317	0.7317	0.0000	2,326.6993	2,326.6993	0.7034			2,341.4700
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6985</b>	<b>16.5387</b>	<b>10.9979</b>	<b>0.0235</b>		<b>0.7928</b>	<b>0.7928</b>		<b>0.7317</b>	<b>0.7317</b>	<b>0.0000</b>	<b>2,326.6993</b>	<b>2,326.6993</b>	<b>0.7034</b>			<b>2,341.4700</b>



### 3.4 Paving - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1229	0.1395	1.4978	2.3600e-003	0.1889	1.8400e-003	0.1908	0.0501	1.6900e-003	0.0518		179.8255	179.8255	0.0120			180.0774
<b>Total</b>	<b>0.1229</b>	<b>0.1395</b>	<b>1.4978</b>	<b>2.3600e-003</b>	<b>0.1889</b>	<b>1.8400e-003</b>	<b>0.1908</b>	<b>0.0501</b>	<b>1.6900e-003</b>	<b>0.0518</b>		<b>179.8255</b>	<b>179.8255</b>	<b>0.0120</b>			<b>180.0774</b>

### 3.5 Architectural Coating - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.0210					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
<b>Total</b>	<b>7.3196</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>			<b>282.0102</b>

### 3.5 Architectural Coating - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	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	5.3400e-003	6.0700e-003	0.0651	1.0000e-004	8.2100e-003	8.0000e-005	8.2900e-003	2.1800e-003	7.0000e-005	2.2500e-003		7.8185	7.8185	5.2000e-004			7.8295
<b>Total</b>	<b>5.3400e-003</b>	<b>6.0700e-003</b>	<b>0.0651</b>	<b>1.0000e-004</b>	<b>8.2100e-003</b>	<b>8.0000e-005</b>	<b>8.2900e-003</b>	<b>2.1800e-003</b>	<b>7.0000e-005</b>	<b>2.2500e-003</b>		<b>7.8185</b>	<b>7.8185</b>	<b>5.2000e-004</b>			<b>7.8295</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	7.0210					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
<b>Total</b>	<b>7.3196</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>			<b>282.0102</b>

### 3.5 Architectural Coating - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	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	5.3400e-003	6.0700e-003	0.0651	1.0000e-004	8.2100e-003	8.0000e-005	8.2900e-003	2.1800e-003	7.0000e-005	2.2500e-003		7.8185	7.8185	5.2000e-004		7.8295
<b>Total</b>	<b>5.3400e-003</b>	<b>6.0700e-003</b>	<b>0.0651</b>	<b>1.0000e-004</b>	<b>8.2100e-003</b>	<b>8.0000e-005</b>	<b>8.2900e-003</b>	<b>2.1800e-003</b>	<b>7.0000e-005</b>	<b>2.2500e-003</b>		<b>7.8185</b>	<b>7.8185</b>	<b>5.2000e-004</b>		<b>7.8295</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

### 4.3 Trip Type Information

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.280839	0.105457	0.186358	0.169491	0.098236	0.011988	0.017132	0.108700	0.005759	0.000739	0.007473	0.001795	0.006033

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 6.0 Area Detail

#### 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	0.1849	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005
Unmitigated	0.1849	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005

## 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	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005
<b>Total</b>	<b>0.1849</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>3.0000e-005</b>

## 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	0.0423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		3.0000e-005	3.0000e-005	0.0000		3.0000e-005
<b>Total</b>	<b>0.1849</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>3.0000e-005</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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