



## 11.5 Air Quality/ Greenhouse Gas Emissions Data

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**Parenthetical CALEEMOD Assumptions  
For: Mammoth Creek Park West New Community Multi-Use Facilities Project  
December 2016**

**PHASE I**

- 30,000 square feet of ice skating rink/RecZone.

**CONSTRUCTION**

**Demolition (2017)**

- 22 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Concrete/Industrial Saws	4
3	Excavators	4
2	Rubber Tired Dozers	2

**Grading (2017)**

- 6,500 cubic yards of soil export.
- 22 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Excavators	4
1	Graders	4
1	Rubber Tired Dozers	4
3	Tractors/Loaders/Backhoes	4

**Building Construction (2017)**

- 110 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Cranes	4
3	Forklifts	4
1	Generator Sets	4
3	Tractors/Loaders/Backhoes	4
1	Welders	4

## Architectural Coating (2017)

- 21 days.

### Equipment:

Quantity	Type	Hours of Daily Operation
1	Air Compressors	6

Multi-Use Facilities Project - Phase I Construction - Great Basin Valleys Air Basin, Summer

**Multi-Use Facilities Project - Phase I Construction**  
**Great Basin Valleys Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	30,000.00	User Defined Unit	4.90	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<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 - Project Characteristics

Land Use - Site acreage

Construction Phase - anticipated schedule

Off-road Equipment -

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment -

Demolition -

Grading - 6,500 yards of excavation and export, site acreage

Vehicle Trips - Construction run only

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Architectural Coating -

Area Coating -

Energy Use -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	110.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	PhaseEndDate	1/31/2018	10/1/2017
tblConstructionPhase	PhaseEndDate	1/2/2018	11/15/2017
tblConstructionPhase	PhaseEndDate	6/30/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/8/2017
tblConstructionPhase	PhaseStartDate	1/3/2018	9/1/2017
tblConstructionPhase	PhaseStartDate	8/2/2017	6/15/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/8/2017
tblGrading	AcresOfGrading	5.50	4.90
tblGrading	MaterialExported	0.00	6,500.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	LandUseSquareFeet	0.00	30,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:32:03 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	813.00	812.00

## 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					
2017	35.3306	60.0071	34.0463	0.0838	4.5076	2.7364	7.2440	2.0176	2.5511	4.5687	0.0000	8,561.434 2	8,561.434 2	1.4533	0.0000	8,597.767 9
<b>Maximum</b>	<b>35.3306</b>	<b>60.0071</b>	<b>34.0463</b>	<b>0.0838</b>	<b>4.5076</b>	<b>2.7364</b>	<b>7.2440</b>	<b>2.0176</b>	<b>2.5511</b>	<b>4.5687</b>	<b>0.0000</b>	<b>8,561.434 2</b>	<b>8,561.434 2</b>	<b>1.4533</b>	<b>0.0000</b>	<b>8,597.767 9</b>

## Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	35.3306	60.0071	34.0463	0.0838	2.3727	2.7364	5.1091	0.9896	2.5511	3.5407	0.0000	8,561.4342	8,561.4342	1.4533	0.0000	8,597.7679
Maximum	35.3306	60.0071	34.0463	0.0838	2.3727	2.7364	5.1091	0.9896	2.5511	3.5407	0.0000	8,561.4342	8,561.4342	1.4533	0.0000	8,597.7679

	ROG	NOx	CO	SO2	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	47.36	0.00	29.47	50.95	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00

## 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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1293	0.0291	3.1053	2.3000e-004	0.0000	0.0112	0.0112	0.0000	0.0112	0.0112		6.5656	6.5656	0.0180	0.0000	7.0160



**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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112			6.5656	6.5656	0.0180		7.0160
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>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>			<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>	<b>0.0000</b>	<b>7.0160</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	Demolition	Demolition	6/1/2017	7/1/2017	5	22	
2	Grading	Grading	6/8/2017	7/8/2017	5	22	
3	Building Construction	Building Construction	6/15/2017	11/15/2017	5	110	
4	Architectural Coating	Architectural Coating	9/1/2017	10/1/2017	5	21	

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

**Acres of Grading (Grading Phase): 4.9**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,000; Non-Residential Outdoor: 15,000; Striped Parking Area:**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	2.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	812.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4360	14.6904	9.1928	0.0151		0.7696	0.7696		0.7203	0.7203		1,525.1600	1,525.1600	0.4026		1,535.2245
<b>Total</b>	<b>1.4360</b>	<b>14.6904</b>	<b>9.1928</b>	<b>0.0151</b>	<b>0.0000</b>	<b>0.7696</b>	<b>0.7696</b>	<b>0.0000</b>	<b>0.7203</b>	<b>0.7203</b>		<b>1,525.1600</b>	<b>1,525.1600</b>	<b>0.4026</b>		<b>1,535.2245</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4360	14.6904	9.1928	0.0151		0.7696	0.7696		0.7203	0.7203	0.0000	1,525.1600	1,525.1600	0.4026		1,535.2245
<b>Total</b>	<b>1.4360</b>	<b>14.6904</b>	<b>9.1928</b>	<b>0.0151</b>	<b>0.0000</b>	<b>0.7696</b>	<b>0.7696</b>	<b>0.0000</b>	<b>0.7203</b>	<b>0.7203</b>	<b>0.0000</b>	<b>1,525.1600</b>	<b>1,525.1600</b>	<b>0.4026</b>		<b>1,535.2245</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</b>

### 3.3 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.2807	0.0000	3.2807	1.6857	0.0000	1.6857			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176		1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>3.2807</b>	<b>0.8887</b>	<b>4.1694</b>	<b>1.6857</b>	<b>0.8176</b>	<b>2.5033</b>		<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5348	12.9815	2.6327	0.0319	0.6470	0.1077	0.7547	0.1775	0.1030	0.2805		3,345.4422	3,345.4422	0.1803		3,349.9492
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	0.1719	0.1258	1.2715	2.1000e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.7067</b>	<b>13.1073</b>	<b>3.9041</b>	<b>0.0340</b>	<b>0.8386</b>	<b>0.1093</b>	<b>0.9479</b>	<b>0.2283</b>	<b>0.1045</b>	<b>0.3328</b>		<b>3,553.5141</b>	<b>3,553.5141</b>	<b>0.1925</b>		<b>3,558.3271</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					1.4025	0.0000	1.4025	0.7206	0.0000	0.7206			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176	0.0000	1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>1.4025</b>	<b>0.8887</b>	<b>2.2912</b>	<b>0.7206</b>	<b>0.8176</b>	<b>1.5383</b>	<b>0.0000</b>	<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5348	12.9815	2.6327	0.0319	0.5201	0.1077	0.6278	0.1463	0.1030	0.2494		3,345.4422	3,345.4422	0.1803		3,349.9492
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	0.1719	0.1258	1.2715	2.1000e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.7067</b>	<b>13.1073</b>	<b>3.9041</b>	<b>0.0340</b>	<b>0.6684</b>	<b>0.1093</b>	<b>0.7777</b>	<b>0.1865</b>	<b>0.1045</b>	<b>0.2910</b>		<b>3,553.5141</b>	<b>3,553.5141</b>	<b>0.1925</b>		<b>3,558.3271</b>

### 3.4 Building Construction - 2017

#### 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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992		1,422.040	1,422.040	0.3561		1,430.943
												1	1			7
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>		<b>1,422.040</b>	<b>1,422.040</b>	<b>0.3561</b>		<b>1,430.943</b>
												1	1			7

#### 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	0.0496	0.6917	0.3077	1.4700e-003	0.0307	7.1100e-003	0.0378	8.8300e-003	6.8000e-003	0.0156		153.3639	153.3639	0.0138		153.7100
Worker	0.1490	0.1090	1.1019	1.8200e-003	0.1661	1.3700e-003	0.1674	0.0440	1.2700e-003	0.0453		180.3290	180.3290	0.0106		180.5942
<b>Total</b>	<b>0.1986</b>	<b>0.8007</b>	<b>1.4097</b>	<b>3.2900e-003</b>	<b>0.1967</b>	<b>8.4800e-003</b>	<b>0.2052</b>	<b>0.0529</b>	<b>8.0700e-003</b>	<b>0.0609</b>		<b>333.6929</b>	<b>333.6929</b>	<b>0.0245</b>		<b>334.3042</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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992	0.0000	1,422.0401	1,422.0401	0.3561		1,430.9437
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>	<b>0.0000</b>	<b>1,422.0401</b>	<b>1,422.0401</b>	<b>0.3561</b>		<b>1,430.9437</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0496	0.6917	0.3077	1.4700e-003	0.0250	7.1100e-003	0.0321	7.4400e-003	6.8000e-003	0.0142		153.3639	153.3639	0.0138		153.7100
Worker	0.1490	0.1090	1.1019	1.8200e-003	0.1285	1.3700e-003	0.1299	0.0348	1.2700e-003	0.0361		180.3290	180.3290	0.0106		180.5942
<b>Total</b>	<b>0.1986</b>	<b>0.8007</b>	<b>1.4097</b>	<b>3.2900e-003</b>	<b>0.1535</b>	<b>8.4800e-003</b>	<b>0.1620</b>	<b>0.0423</b>	<b>8.0700e-003</b>	<b>0.0503</b>		<b>333.6929</b>	<b>333.6929</b>	<b>0.0245</b>		<b>334.3042</b>



### 3.5 Architectural Coating - 2017

#### 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	33.1071					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>33.4395</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0344	0.0252	0.2543	4.2000e-004	0.0383	3.2000e-004	0.0386	0.0102	2.9000e-004	0.0105		41.6144	41.6144	2.4500e-003		41.6756
<b>Total</b>	<b>0.0344</b>	<b>0.0252</b>	<b>0.2543</b>	<b>4.2000e-004</b>	<b>0.0383</b>	<b>3.2000e-004</b>	<b>0.0386</b>	<b>0.0102</b>	<b>2.9000e-004</b>	<b>0.0105</b>		<b>41.6144</b>	<b>41.6144</b>	<b>2.4500e-003</b>		<b>41.6756</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	33.1071					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>33.4395</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0344	0.0252	0.2543	4.2000e-004	0.0297	3.2000e-004	0.0300	8.0400e-003	2.9000e-004	8.3300e-003		41.6144	41.6144	2.4500e-003		41.6756
<b>Total</b>	<b>0.0344</b>	<b>0.0252</b>	<b>0.2543</b>	<b>4.2000e-004</b>	<b>0.0297</b>	<b>3.2000e-004</b>	<b>0.0300</b>	<b>8.0400e-003</b>	<b>2.9000e-004</b>	<b>8.3300e-003</b>		<b>41.6144</b>	<b>41.6144</b>	<b>2.4500e-003</b>		<b>41.6756</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
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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>

**Mitigated**

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

**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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
Unmitigated	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160

## 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	0.1905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.2968	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
<b>Total</b>	<b>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>		<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>		<b>7.0160</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	lb/day										lb/day					
Architectural Coating	0.1905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.2968	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
<b>Total</b>	<b>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>		<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>		<b>7.0160</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Multi-Use Facilities Project - Phase I Construction - Great Basin Valleys Air Basin, Winter

**Multi-Use Facilities Project - Phase I Construction**  
**Great Basin Valleys Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	30,000.00	User Defined Unit	4.90	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<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 - Project Characteristics

Land Use - Site acreage

Construction Phase - anticipated schedule

Off-road Equipment -

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment -

Demolition -

Grading - 6,500 yards of excavation and export, site acreage

Vehicle Trips - Construction run only



Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Architectural Coating -

Area Coating -

Energy Use -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	110.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	PhaseEndDate	1/31/2018	10/1/2017
tblConstructionPhase	PhaseEndDate	1/2/2018	11/15/2017
tblConstructionPhase	PhaseEndDate	6/30/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/8/2017
tblConstructionPhase	PhaseStartDate	1/3/2018	9/1/2017
tblConstructionPhase	PhaseStartDate	8/2/2017	6/15/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/8/2017
tblGrading	AcresOfGrading	5.50	4.90
tblGrading	MaterialExported	0.00	6,500.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	LandUseSquareFeet	0.00	30,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:32:03 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	813.00	812.00

## 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					
2017	35.3856	59.9196	34.4987	0.0829	4.5076	2.7435	7.2511	2.0176	2.5579	4.5755	0.0000	8,466.763 1	8,466.763 1	1.4722	0.0000	8,503.567 2
Maximum	35.3856	59.9196	34.4987	0.0829	4.5076	2.7435	7.2511	2.0176	2.5579	4.5755	0.0000	8,466.763 1	8,466.763 1	1.4722	0.0000	8,503.567 2

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	35.3856	59.9196	34.4987	0.0829	2.3727	2.7435	5.1162	0.9896	2.5579	3.5475	0.0000	8,466.763 1	8,466.763 1	1.4722	0.0000	8,503.567 2
Maximum	35.3856	59.9196	34.4987	0.0829	2.3727	2.7435	5.1162	0.9896	2.5579	3.5475	0.0000	8,466.763 1	8,466.763 1	1.4722	0.0000	8,503.567 2

	ROG	NOx	CO	SO2	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	47.36	0.00	29.44	50.95	0.00	22.47	0.00	0.00	0.00	0.00	0.00	0.00

**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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1293	0.0291	3.1053	2.3000e-004	0.0000	0.0112	0.0112	0.0000	0.0112	0.0112		6.5656	6.5656	0.0180	0.0000	7.0160

**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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112			6.5656	6.5656	0.0180		7.0160
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>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>			<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>	<b>0.0000</b>	<b>7.0160</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	Demolition	Demolition	6/1/2017	7/1/2017	5	22	
2	Grading	Grading	6/8/2017	7/8/2017	5	22	
3	Building Construction	Building Construction	6/15/2017	11/15/2017	5	110	
4	Architectural Coating	Architectural Coating	9/1/2017	10/1/2017	5	21	

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

**Acres of Grading (Grading Phase): 4.9**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,000; Non-Residential Outdoor: 15,000; Striped Parking Area:**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	2.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	812.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4360	14.6904	9.1928	0.0151		0.7696	0.7696		0.7203	0.7203		1,525.1600	1,525.1600	0.4026		1,535.2245
<b>Total</b>	<b>1.4360</b>	<b>14.6904</b>	<b>9.1928</b>	<b>0.0151</b>	<b>0.0000</b>	<b>0.7696</b>	<b>0.7696</b>	<b>0.0000</b>	<b>0.7203</b>	<b>0.7203</b>		<b>1,525.1600</b>	<b>1,525.1600</b>	<b>0.4026</b>		<b>1,535.2245</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4360	14.6904	9.1928	0.0151		0.7696	0.7696		0.7203	0.7203	0.0000	1,525.1600	1,525.1600	0.4026		1,535.2245
<b>Total</b>	<b>1.4360</b>	<b>14.6904</b>	<b>9.1928</b>	<b>0.0151</b>	<b>0.0000</b>	<b>0.7696</b>	<b>0.7696</b>	<b>0.0000</b>	<b>0.7203</b>	<b>0.7203</b>	<b>0.0000</b>	<b>1,525.1600</b>	<b>1,525.1600</b>	<b>0.4026</b>		<b>1,535.2245</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</b>

### 3.3 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.2807	0.0000	3.2807	1.6857	0.0000	1.6857			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176		1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>3.2807</b>	<b>0.8887</b>	<b>4.1694</b>	<b>1.6857</b>	<b>0.8176</b>	<b>2.5033</b>		<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5619	12.8901	3.0372	0.0311	0.6470	0.1143	0.7613	0.1775	0.1094	0.2869		3,258.3020	3,258.3020	0.1978		3,263.2468
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	0.2197	0.1307	1.2775	2.0900e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.7815</b>	<b>13.0208</b>	<b>4.3146</b>	<b>0.0332</b>	<b>0.8386</b>	<b>0.1159</b>	<b>0.9545</b>	<b>0.2283</b>	<b>0.1108</b>	<b>0.3391</b>		<b>3,465.8286</b>	<b>3,465.8286</b>	<b>0.2101</b>		<b>3,471.0804</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					1.4025	0.0000	1.4025	0.7206	0.0000	0.7206			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176	0.0000	1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>1.4025</b>	<b>0.8887</b>	<b>2.2912</b>	<b>0.7206</b>	<b>0.8176</b>	<b>1.5383</b>	<b>0.0000</b>	<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5619	12.8901	3.0372	0.0311	0.5201	0.1143	0.6345	0.1463	0.1094	0.2557		3,258.3020	3,258.3020	0.1978		3,263.2468
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	0.2197	0.1307	1.2775	2.0900e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.7815</b>	<b>13.0208</b>	<b>4.3146</b>	<b>0.0332</b>	<b>0.6684</b>	<b>0.1159</b>	<b>0.7843</b>	<b>0.1865</b>	<b>0.1108</b>	<b>0.2974</b>		<b>3,465.8286</b>	<b>3,465.8286</b>	<b>0.2101</b>		<b>3,471.0804</b>

### 3.4 Building Construction - 2017

#### 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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992		1,422.0401	1,422.0401	0.3561		1,430.9437
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>		<b>1,422.0401</b>	<b>1,422.0401</b>	<b>0.3561</b>		<b>1,430.9437</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0536	0.6815	0.3384	1.4200e-003	0.0307	7.5700e-003	0.0382	8.8300e-003	7.2400e-003	0.0161		147.3960	147.3960	0.0150		147.7721
Worker	0.1904	0.1133	1.1072	1.8100e-003	0.1661	1.3700e-003	0.1674	0.0440	1.2700e-003	0.0453		179.8564	179.8564	0.0106		180.1224
<b>Total</b>	<b>0.2440</b>	<b>0.7948</b>	<b>1.4455</b>	<b>3.2300e-003</b>	<b>0.1967</b>	<b>8.9400e-003</b>	<b>0.2057</b>	<b>0.0529</b>	<b>8.5100e-003</b>	<b>0.0614</b>		<b>327.2525</b>	<b>327.2525</b>	<b>0.0257</b>		<b>327.8946</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	lb/day										lb/day					
Off-Road	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992	0.0000	1,422.040 1	1,422.040 1	0.3561		1,430.943 7
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>	<b>0.0000</b>	<b>1,422.040 1</b>	<b>1,422.040 1</b>	<b>0.3561</b>		<b>1,430.943 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0536	0.6815	0.3384	1.4200e-003	0.0250	7.5700e-003	0.0326	7.4400e-003	7.2400e-003	0.0147		147.3960	147.3960	0.0150		147.7721
Worker	0.1904	0.1133	1.1072	1.8100e-003	0.1285	1.3700e-003	0.1299	0.0348	1.2700e-003	0.0361		179.8564	179.8564	0.0106		180.1224
<b>Total</b>	<b>0.2440</b>	<b>0.7948</b>	<b>1.4455</b>	<b>3.2300e-003</b>	<b>0.1535</b>	<b>8.9400e-003</b>	<b>0.1625</b>	<b>0.0423</b>	<b>8.5100e-003</b>	<b>0.0508</b>		<b>327.2525</b>	<b>327.2525</b>	<b>0.0257</b>		<b>327.8946</b>

### 3.5 Architectural Coating - 2017

#### 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	33.1071					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>33.4395</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0439	0.0261	0.2555	4.2000e-004	0.0383	3.2000e-004	0.0386	0.0102	2.9000e-004	0.0105		41.5053	41.5053	2.4600e-003		41.5667
<b>Total</b>	<b>0.0439</b>	<b>0.0261</b>	<b>0.2555</b>	<b>4.2000e-004</b>	<b>0.0383</b>	<b>3.2000e-004</b>	<b>0.0386</b>	<b>0.0102</b>	<b>2.9000e-004</b>	<b>0.0105</b>		<b>41.5053</b>	<b>41.5053</b>	<b>2.4600e-003</b>		<b>41.5667</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	33.1071					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>33.4395</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0439	0.0261	0.2555	4.2000e-004	0.0297	3.2000e-004	0.0300	8.0400e-003	2.9000e-004	8.3300e-003		41.5053	41.5053	2.4600e-003		41.5667
<b>Total</b>	<b>0.0439</b>	<b>0.0261</b>	<b>0.2555</b>	<b>4.2000e-004</b>	<b>0.0297</b>	<b>3.2000e-004</b>	<b>0.0300</b>	<b>8.0400e-003</b>	<b>2.9000e-004</b>	<b>8.3300e-003</b>		<b>41.5053</b>	<b>41.5053</b>	<b>2.4600e-003</b>		<b>41.5667</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
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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>

**Mitigated**

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

**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	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
Unmitigated	1.1293	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160



## 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	0.1905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.2968	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
<b>Total</b>	<b>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>		<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>		<b>7.0160</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	lb/day										lb/day					
Architectural Coating	0.1905					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.2968	0.0291	3.1053	2.3000e-004		0.0112	0.0112		0.0112	0.0112		6.5656	6.5656	0.0180		7.0160
<b>Total</b>	<b>1.1293</b>	<b>0.0291</b>	<b>3.1053</b>	<b>2.3000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0112</b>	<b>0.0112</b>		<b>6.5656</b>	<b>6.5656</b>	<b>0.0180</b>		<b>7.0160</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Multi-Use Facilities Project - Phase I Construction - Great Basin Valleys Air Basin, Annual

**Multi-Use Facilities Project - Phase I Construction**  
**Great Basin Valleys Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	30,000.00	User Defined Unit	4.90	30,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<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 - Project Characteristics

Land Use - Site acreage

Construction Phase - anticipated schedule

Off-road Equipment -

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment - Phase I and Phase II construction concurrently

Off-road Equipment -

Demolition -

Grading - 6,500 yards of excavation and export, site acreage

Vehicle Trips - Construction run only

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Architectural Coating -

Area Coating -

Energy Use -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	110.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	PhaseEndDate	1/31/2018	10/1/2017
tblConstructionPhase	PhaseEndDate	1/2/2018	11/15/2017
tblConstructionPhase	PhaseEndDate	6/30/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/8/2017
tblConstructionPhase	PhaseStartDate	1/3/2018	9/1/2017
tblConstructionPhase	PhaseStartDate	8/2/2017	6/15/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/8/2017
tblGrading	AcresOfGrading	5.50	4.90
tblGrading	MaterialExported	0.00	6,500.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	LandUseSquareFeet	0.00	30,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:32:03 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	813.00	812.00

## 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					
2017	0.4965	1.3538	0.8920	1.7200e-003	0.0580	0.0745	0.1325	0.0245	0.0698	0.0943	0.0000	157.5427	157.5427	0.0302	0.0000	158.2967
Maximum	0.4965	1.3538	0.8920	1.7200e-003	0.0580	0.0745	0.1325	0.0245	0.0698	0.0943	0.0000	157.5427	157.5427	0.0302	0.0000	158.2967

**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					
2017	0.4965	1.3538	0.8920	1.7200e-003	0.0327	0.0745	0.1072	0.0127	0.0698	0.0826	0.0000	157.5426	157.5426	0.0302	0.0000	158.2965
<b>Maximum</b>	<b>0.4965</b>	<b>1.3538</b>	<b>0.8920</b>	<b>1.7200e-003</b>	<b>0.0327</b>	<b>0.0745</b>	<b>0.1072</b>	<b>0.0127</b>	<b>0.0698</b>	<b>0.0826</b>	<b>0.0000</b>	<b>157.5426</b>	<b>157.5426</b>	<b>0.0302</b>	<b>0.0000</b>	<b>158.2965</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>43.65</b>	<b>0.00</b>	<b>19.10</b>	<b>48.08</b>	<b>0.00</b>	<b>12.46</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	6-1-2017	8-31-2017	1.0129	1.0129
2	9-1-2017	9-30-2017	0.5644	0.5644
		Highest	1.0129	1.0129

**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	0.1786	2.6200e-003	0.2795	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728
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>0.1786</b>	<b>2.6200e-003</b>	<b>0.2795</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.5361</b>	<b>0.5361</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.5728</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	tons/yr										MT/yr					
Area	0.1786	2.6200e-003	0.2795	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728
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>0.1786</b>	<b>2.6200e-003</b>	<b>0.2795</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.5361</b>	<b>0.5361</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.5728</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	Demolition	Demolition	6/1/2017	7/1/2017	5	22	
2	Grading	Grading	6/8/2017	7/8/2017	5	22	
3	Building Construction	Building Construction	6/15/2017	11/15/2017	5	110	
4	Architectural Coating	Architectural Coating	9/1/2017	10/1/2017	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,000; Non-Residential Outdoor: 15,000; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	2.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37



Building Construction	Welders	1	4.00	46	0.45
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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	812.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1616	0.1011	1.7000e-004		8.4700e-003	8.4700e-003		7.9200e-003	7.9200e-003	0.0000	15.2196	15.2196	4.0200e-003	0.0000	15.3201
<b>Total</b>	<b>0.0158</b>	<b>0.1616</b>	<b>0.1011</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>8.4700e-003</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>7.9200e-003</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>15.2196</b>	<b>15.2196</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>15.3201</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	2.0400e-003	2.0000e-005	2.0600e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>2.0000e-005</b>	<b>2.0600e-003</b>	<b>5.4000e-004</b>	<b>2.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1616	0.1011	1.7000e-004		8.4700e-003	8.4700e-003		7.9200e-003	7.9200e-003	0.0000	15.2196	15.2196	4.0200e-003	0.0000	15.3200
<b>Total</b>	<b>0.0158</b>	<b>0.1616</b>	<b>0.1011</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>8.4700e-003</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>7.9200e-003</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>15.2196</b>	<b>15.2196</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>15.3200</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	1.5800e-003	2.0000e-005	1.6000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.3000e-004</b>	<b>2.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</b>

**3.3 Grading - 2017**

**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					0.0361	0.0000	0.0361	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0361</b>	<b>9.7800e-003</b>	<b>0.0459</b>	<b>0.0185</b>	<b>8.9900e-003</b>	<b>0.0275</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0500e-003	0.1451	0.0322	3.5000e-004	6.9200e-003	1.2200e-003	8.1300e-003	1.9000e-003	1.1600e-003	3.0700e-003	0.0000	33.0191	33.0191	1.9300e-003	0.0000	33.0673
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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	2.0400e-003	2.0000e-005	2.0600e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>7.9800e-003</b>	<b>0.1467</b>	<b>0.0463</b>	<b>3.7000e-004</b>	<b>8.9600e-003</b>	<b>1.2400e-003</b>	<b>0.0102</b>	<b>2.4400e-003</b>	<b>1.1800e-003</b>	<b>3.6300e-003</b>	<b>0.0000</b>	<b>35.0094</b>	<b>35.0094</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>35.0606</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					0.0154	0.0000	0.0154	7.9300e-003	0.0000	7.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0154</b>	<b>9.7800e-003</b>	<b>0.0252</b>	<b>7.9300e-003</b>	<b>8.9900e-003</b>	<b>0.0169</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0500e-003	0.1451	0.0322	3.5000e-004	5.5700e-003	1.2200e-003	6.7900e-003	1.5700e-003	1.1600e-003	2.7400e-003	0.0000	33.0191	33.0191	1.9300e-003	0.0000	33.0673
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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	1.5800e-003	2.0000e-005	1.6000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>7.9800e-003</b>	<b>0.1467</b>	<b>0.0463</b>	<b>3.7000e-004</b>	<b>7.1500e-003</b>	<b>1.2400e-003</b>	<b>8.3900e-003</b>	<b>2.0000e-003</b>	<b>1.1800e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>35.0094</b>	<b>35.0094</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>35.0606</b>

**3.4 Building Construction - 2017**

**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	0.0912	0.7887	0.5344	7.9000e-004		0.0527	0.0527		0.0495	0.0495	0.0000	70.9529	70.9529	0.0178	0.0000	71.3972
<b>Total</b>	<b>0.0912</b>	<b>0.7887</b>	<b>0.5344</b>	<b>7.9000e-004</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>70.9529</b>	<b>70.9529</b>	<b>0.0178</b>	<b>0.0000</b>	<b>71.3972</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.8300e-003	0.0385	0.0190	8.0000e-005	1.6400e-003	4.0000e-004	2.0400e-003	4.7000e-004	3.8000e-004	8.6000e-004	0.0000	7.5269	7.5269	7.4000e-004	0.0000	7.5453
Worker	8.3600e-003	7.0500e-003	0.0608	1.0000e-004	8.8400e-003	8.0000e-005	8.9100e-003	2.3500e-003	7.0000e-005	2.4200e-003	0.0000	8.6249	8.6249	5.2000e-004	0.0000	8.6378
<b>Total</b>	<b>0.0112</b>	<b>0.0456</b>	<b>0.0798</b>	<b>1.8000e-004</b>	<b>0.0105</b>	<b>4.8000e-004</b>	<b>0.0110</b>	<b>2.8200e-003</b>	<b>4.5000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>16.1518</b>	<b>16.1518</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>16.1831</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	0.0912	0.7887	0.5344	7.9000e-004		0.0527	0.0527		0.0495	0.0495	0.0000	70.9528	70.9528	0.0178	0.0000	71.3971
<b>Total</b>	<b>0.0912</b>	<b>0.7887</b>	<b>0.5344</b>	<b>7.9000e-004</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>70.9528</b>	<b>70.9528</b>	<b>0.0178</b>	<b>0.0000</b>	<b>71.3971</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.8300e-003	0.0385	0.0190	8.0000e-005	1.3400e-003	4.0000e-004	1.7400e-003	4.0000e-004	3.8000e-004	7.9000e-004	0.0000	7.5269	7.5269	7.4000e-004	0.0000	7.5453
Worker	8.3600e-003	7.0500e-003	0.0608	1.0000e-004	6.8500e-003	8.0000e-005	6.9300e-003	1.8600e-003	7.0000e-005	1.9300e-003	0.0000	8.6249	8.6249	5.2000e-004	0.0000	8.6378
<b>Total</b>	<b>0.0112</b>	<b>0.0456</b>	<b>0.0798</b>	<b>1.8000e-004</b>	<b>8.1900e-003</b>	<b>4.8000e-004</b>	<b>8.6700e-003</b>	<b>2.2600e-003</b>	<b>4.5000e-004</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>16.1518</b>	<b>16.1518</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>16.1831</b>

**3.5 Architectural Coating - 2017**

**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	0.3476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0229	0.0196	3.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	2.6809	2.6809	2.8000e-004	0.0000	2.6880
<b>Total</b>	<b>0.3511</b>	<b>0.0229</b>	<b>0.0196</b>	<b>3.0000e-005</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.6880</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.7000e-004	3.1000e-004	2.6800e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3800	0.3800	2.0000e-005	0.0000	0.3806
<b>Total</b>	<b>3.7000e-004</b>	<b>3.1000e-004</b>	<b>2.6800e-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>0.0000</b>	<b>0.3800</b>	<b>0.3800</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3806</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	0.3476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0229	0.0196	3.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	2.6809	2.6809	2.8000e-004	0.0000	2.6880
<b>Total</b>	<b>0.3511</b>	<b>0.0229</b>	<b>0.0196</b>	<b>3.0000e-005</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.6880</b>









### 5.3 Energy by Land Use - Electricity

#### Unmitigated

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

#### Mitigated

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

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	0.1786	2.6200e-003	0.2795	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728
Unmitigated	0.1786	2.6200e-003	0.2795	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0267	2.6200e-003	0.2795	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728
<b>Total</b>	<b>0.1786</b>	<b>2.6200e-003</b>	<b>0.2795</b>	<b>2.0000e-005</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.5361</b>	<b>0.5361</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.5728</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	0.0348						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.1172						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0267	2.6200e-003	0.2795	2.0000e-005			1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	0.5361	0.5361	1.4700e-003	0.0000	0.5728
<b>Total</b>	<b>0.1786</b>	<b>2.6200e-003</b>	<b>0.2795</b>	<b>2.0000e-005</b>			<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.5361</b>	<b>0.5361</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.5728</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	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	M1/yr			
User Defined Recreational	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>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	M1/yr			
User Defined Recreational	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			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



## Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined	0	0.0000	0.0000	0.0000	0.0000
Recreational					
<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 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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**Parenthetical CALEEMOD Assumptions  
For: Mammoth Creek Park West New Community Multi-Use Facilities Project  
December 2016**

**PHASE II**

- 5,000 square feet of community center facilities.

**CONSTRUCTION**

**Demolition (2017)**

- 22 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Concrete/Industrial Saws	4
3	Excavators	4
2	Rubber Tired Dozers	4

**Grading (2017)**

- 22 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Excavators	4
1	Graders	4
1	Rubber Tired Dozers	4
3	Tractors/Loaders/Backhoes	4

**Building Construction (2017 - 2018)**

- 175 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Cranes	4
3	Forklifts	4
1	Generator Sets	4
3	Tractors/Loaders/Backhoes	4
1	Welders	4

## **Paving (2017)**

- 21 days.

### **Equipment:**

Quantity	Type	Hours of Daily Operation
2	Pavers	8
2	Paving Equipment	8
2	Rollers	8

## **Architectural Coating (2018)**

- 20 days.

### **Equipment:**

Quantity	Type	Hours of Daily Operation
1	Air Compressors	6

Multi-Use Facilities Project - Phase II Construction - Great Basin Valleys Air Basin, Summer

**Multi-Use Facilities Project - Phase II Construction**  
**Great Basin Valleys Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	50.00	Space	0.45	20,000.00	0
User Defined Recreational	5,000.00	User Defined Unit	4.90	5,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Project characteristics

Land Use - Site acreage

Construction Phase - anticipated schedule

Off-road Equipment -

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	230.00	175.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	PhaseEndDate	5/30/2018	3/10/2018
tblConstructionPhase	PhaseEndDate	4/3/2018	3/9/2018
tblConstructionPhase	PhaseEndDate	6/30/2017	7/8/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	5/2/2018	10/1/2017
tblConstructionPhase	PhaseStartDate	5/3/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	8/2/2017	7/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	6/8/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/1/2017
tblConstructionPhase	PhaseStartDate	4/4/2018	9/1/2017
tblGrading	AcresOfGrading	5.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	5,000.00

tblLandUse	LandUseSquareFeet	0.00	5,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:58:37 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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					
2017	3.9969	38.5688	27.1982	0.0420	3.6305	2.1264	5.6191	1.7822	1.9736	3.6240	0.0000	4,236.0353	4,236.0353	1.1025	0.0000	4,263.5989
2018	8.3793	15.2408	12.4084	0.0203	0.1906	0.9587	1.1493	0.0511	0.9092	0.9603	0.0000	1,985.0557	1,985.0557	0.3946	0.0000	1,994.9197
<b>Maximum</b>	<b>8.3793</b>	<b>38.5688</b>	<b>27.1982</b>	<b>0.0420</b>	<b>3.6305</b>	<b>2.1264</b>	<b>5.6191</b>	<b>1.7822</b>	<b>1.9736</b>	<b>3.6240</b>	<b>0.0000</b>	<b>4,236.0353</b>	<b>4,236.0353</b>	<b>1.1025</b>	<b>0.0000</b>	<b>4,263.5989</b>

## Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	3.9969	38.5688	27.1982	0.0420	1.6848	2.1264	3.6734	0.7988	1.9736	2.6406	0.0000	4,236.0353	4,236.0353	1.1025	0.0000	4,263.5989
2018	8.3793	15.2408	12.4084	0.0203	0.1485	0.9587	1.1072	0.0408	0.9092	0.9500	0.0000	1,985.0557	1,985.0557	0.3946	0.0000	1,994.9197
Maximum	8.3793	38.5688	27.1982	0.0420	1.6848	2.1264	3.6734	0.7988	1.9736	2.6406	0.0000	4,236.0353	4,236.0353	1.1025	0.0000	4,263.5989

  

	ROG	NOx	CO	SO2	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	52.02	0.00	29.37	54.20	0.00	21.68	0.00	0.00	0.00	0.00	0.00	0.00

## 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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		1.1052	1.1052	3.0000e-003		1.1801
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1990	4.8400e-003	0.5206	4.0000e-005	0.0000	1.8700e-003	1.8700e-003	0.0000	1.8700e-003	1.8700e-003		1.1052	1.1052	3.0000e-003	0.0000	1.1801

**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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
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>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>			<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>1.1801</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	Demolition	Demolition	6/8/2017	7/8/2017	5	22	
2	Grading	Grading	6/1/2017	7/1/2017	5	22	
3	Building Construction	Building Construction	7/9/2017	3/9/2018	5	175	
4	Architectural Coating	Architectural Coating	2/10/2018	3/10/2018	5	20	
5	Paving	Paving	9/1/2017	10/1/2017	5	21	

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

**Acres of Grading (Grading Phase): 4.9**

**Acres of Paving: 0.45**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area:**



## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

## 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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	11.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0516	21.3737	11.5061	0.0194		1.0967	1.0967		1.0213	1.0213		1,962.1417	1,962.1417	0.5365		1,975.5535
<b>Total</b>	<b>2.0516</b>	<b>21.3737</b>	<b>11.5061</b>	<b>0.0194</b>	<b>0.0000</b>	<b>1.0967</b>	<b>1.0967</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>		<b>1,962.1417</b>	<b>1,962.1417</b>	<b>0.5365</b>		<b>1,975.5535</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0516	21.3737	11.5061	0.0194		1.0967	1.0967		1.0213	1.0213	0.0000	1,962.1417	1,962.1417	0.5365		1,975.5535
<b>Total</b>	<b>2.0516</b>	<b>21.3737</b>	<b>11.5061</b>	<b>0.0194</b>	<b>0.0000</b>	<b>1.0967</b>	<b>1.0967</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>0.0000</b>	<b>1,962.1417</b>	<b>1,962.1417</b>	<b>0.5365</b>		<b>1,975.5535</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</b>

**3.3 Grading - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.2473	0.0000	3.2473	1.6806	0.0000	1.6806			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176		1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>3.2473</b>	<b>0.8887</b>	<b>4.1360</b>	<b>1.6806</b>	<b>0.8176</b>	<b>2.4982</b>		<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</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					1.3882	0.0000	1.3882	0.7185	0.0000	0.7185			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176	0.0000	1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>1.3882</b>	<b>0.8887</b>	<b>2.2769</b>	<b>0.7185</b>	<b>0.8176</b>	<b>1.5361</b>	<b>0.0000</b>	<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</b>

**3.4 Building Construction - 2017**

**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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992		1,422.0401	1,422.0401	0.3561		1,430.9437
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>		<b>1,422.0401</b>	<b>1,422.0401</b>	<b>0.3561</b>		<b>1,430.9437</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0397	0.5533	0.2462	1.1800e-003	0.0245	5.6800e-003	0.0302	7.0600e-003	5.4400e-003	0.0125		122.6911	122.6911	0.0111		122.9680
Worker	0.1261	0.0923	0.9324	1.5400e-003	0.1405	1.1600e-003	0.1417	0.0373	1.0700e-003	0.0383		152.5860	152.5860	8.9800e-003		152.8105
<b>Total</b>	<b>0.1657</b>	<b>0.6456</b>	<b>1.1786</b>	<b>2.7200e-003</b>	<b>0.1650</b>	<b>6.8400e-003</b>	<b>0.1719</b>	<b>0.0443</b>	<b>6.5100e-003</b>	<b>0.0508</b>		<b>275.2772</b>	<b>275.2772</b>	<b>0.0201</b>		<b>275.7785</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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992	0.0000	1,422.040	1,422.040	0.3561		1,430.943
												1	1			7
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>	<b>0.0000</b>	<b>1,422.040</b>	<b>1,422.040</b>	<b>0.3561</b>		<b>1,430.943</b>
												1	1			7

**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	0.0397	0.5533	0.2462	1.1800e-003	0.0200	5.6800e-003	0.0257	5.9500e-003	5.4400e-003	0.0114		122.6911	122.6911	0.0111		122.9680
Worker	0.1261	0.0923	0.9324	1.5400e-003	0.1087	1.1600e-003	0.1099	0.0295	1.0700e-003	0.0305		152.5860	152.5860	8.9800e-003		152.8105
<b>Total</b>	<b>0.1657</b>	<b>0.6456</b>	<b>1.1786</b>	<b>2.7200e-003</b>	<b>0.1287</b>	<b>6.8400e-003</b>	<b>0.1356</b>	<b>0.0354</b>	<b>6.5100e-003</b>	<b>0.0419</b>		<b>275.2772</b>	<b>275.2772</b>	<b>0.0201</b>		<b>275.7785</b>

**3.4 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	1.4253	12.6144	9.3860	0.0144		0.8033	0.8033		0.7541	0.7541		1,405.4004	1,405.4004	0.3506		1,414.1659
<b>Total</b>	<b>1.4253</b>	<b>12.6144</b>	<b>9.3860</b>	<b>0.0144</b>		<b>0.8033</b>	<b>0.8033</b>		<b>0.7541</b>	<b>0.7541</b>		<b>1,405.4004</b>	<b>1,405.4004</b>	<b>0.3506</b>		<b>1,414.1659</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0301	0.5250	0.1988	1.1800e-003	0.0245	3.5400e-003	0.0281	7.0600e-003	3.3900e-003	0.0105		122.8191	122.8191	7.8700e-003		123.0158
Worker	0.1153	0.0810	0.8203	1.4900e-003	0.1405	1.1100e-003	0.1416	0.0373	1.0200e-003	0.0383		148.4050	148.4050	7.8900e-003		148.6023
<b>Total</b>	<b>0.1454</b>	<b>0.6060</b>	<b>1.0191</b>	<b>2.6700e-003</b>	<b>0.1650</b>	<b>4.6500e-003</b>	<b>0.1697</b>	<b>0.0443</b>	<b>4.4100e-003</b>	<b>0.0487</b>		<b>271.2241</b>	<b>271.2241</b>	<b>0.0158</b>		<b>271.6181</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	1.4253	12.6144	9.3860	0.0144		0.8033	0.8033		0.7541	0.7541	0.0000	1,405.4004	1,405.4004	0.3506		1,414.1659
<b>Total</b>	<b>1.4253</b>	<b>12.6144</b>	<b>9.3860</b>	<b>0.0144</b>		<b>0.8033</b>	<b>0.8033</b>		<b>0.7541</b>	<b>0.7541</b>	<b>0.0000</b>	<b>1,405.4004</b>	<b>1,405.4004</b>	<b>0.3506</b>		<b>1,414.1659</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0301	0.5250	0.1988	1.1800e-003	0.0200	3.5400e-003	0.0235	5.9500e-003	3.3900e-003	9.3400e-003		122.8191	122.8191	7.8700e-003		123.0158
Worker	0.1153	0.0810	0.8203	1.4900e-003	0.1087	1.1100e-003	0.1099	0.0295	1.0200e-003	0.0305		148.4050	148.4050	7.8900e-003		148.6023
<b>Total</b>	<b>0.1454</b>	<b>0.6060</b>	<b>1.0191</b>	<b>2.6700e-003</b>	<b>0.1287</b>	<b>4.6500e-003</b>	<b>0.1334</b>	<b>0.0354</b>	<b>4.4100e-003</b>	<b>0.0398</b>		<b>271.2241</b>	<b>271.2241</b>	<b>0.0158</b>		<b>271.6181</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	6.4890					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		282.1171
<b>Total</b>	<b>6.7876</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>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0147	0.1491	2.7000e-004	0.0256	2.0000e-004	0.0258	6.7700e-003	1.9000e-004	6.9600e-003		26.9827	26.9827	1.4300e-003		27.0186
<b>Total</b>	<b>0.0210</b>	<b>0.0147</b>	<b>0.1491</b>	<b>2.7000e-004</b>	<b>0.0256</b>	<b>2.0000e-004</b>	<b>0.0258</b>	<b>6.7700e-003</b>	<b>1.9000e-004</b>	<b>6.9600e-003</b>		<b>26.9827</b>	<b>26.9827</b>	<b>1.4300e-003</b>		<b>27.0186</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	6.4890					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		282.1171
<b>Total</b>	<b>6.7876</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>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0147	0.1491	2.7000e-004	0.0198	2.0000e-004	0.0200	5.3600e-003	1.9000e-004	5.5400e-003		26.9827	26.9827	1.4300e-003		27.0186
<b>Total</b>	<b>0.0210</b>	<b>0.0147</b>	<b>0.1491</b>	<b>2.7000e-004</b>	<b>0.0198</b>	<b>2.0000e-004</b>	<b>0.0200</b>	<b>5.3600e-003</b>	<b>1.9000e-004</b>	<b>5.5400e-003</b>		<b>26.9827</b>	<b>26.9827</b>	<b>1.4300e-003</b>		<b>27.0186</b>

**3.6 Paving - 2017**

**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	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0010</b>	<b>20.7178</b>	<b>15.0320</b>	<b>0.0228</b>		<b>1.1592</b>	<b>1.1592</b>		<b>1.0665</b>	<b>1.0665</b>		<b>2,330.6461</b>	<b>2,330.6461</b>	<b>0.7141</b>		<b>2,348.4988</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</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	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0010</b>	<b>20.7178</b>	<b>15.0320</b>	<b>0.0228</b>		<b>1.1592</b>	<b>1.1592</b>		<b>1.0665</b>	<b>1.0665</b>	<b>0.0000</b>	<b>2,330.6461</b>	<b>2,330.6461</b>	<b>0.7141</b>		<b>2,348.4988</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1719	0.1258	1.2715	2.1000e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		208.0719	208.0719	0.0122		208.3780
<b>Total</b>	<b>0.1719</b>	<b>0.1258</b>	<b>1.2715</b>	<b>2.1000e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>208.0719</b>	<b>208.0719</b>	<b>0.0122</b>		<b>208.3780</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
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673
User Defined Recreational	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

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

### Mitigated

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



## 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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
Unmitigated	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801

### 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	0.0356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.1141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0493	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
<b>Total</b>	<b>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>			<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>		<b>1.1801</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	lb/day										lb/day					
Architectural Coating	0.0356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0493	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		1.1052	1.1052	3.0000e-003		1.1801
<b>Total</b>	<b>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>		<b>1.1801</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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## **11.0 Vegetation**

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Multi-Use Facilities Project - Phase II Construction - Great Basin Valleys Air Basin, Winter

**Multi-Use Facilities Project - Phase II Construction**  
**Great Basin Valleys Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	50.00	Space	0.45	20,000.00	0
User Defined Recreational	5,000.00	User Defined Unit	4.90	5,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Project characteristics

Land Use - Site acreage

Construction Phase - anticipated schedule

Off-road Equipment -

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment - Phase I and Phase II concurrent construction

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	230.00	175.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	PhaseEndDate	5/30/2018	3/10/2018
tblConstructionPhase	PhaseEndDate	4/3/2018	3/9/2018
tblConstructionPhase	PhaseEndDate	6/30/2017	7/8/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	5/2/2018	10/1/2017
tblConstructionPhase	PhaseStartDate	5/3/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	8/2/2017	7/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	6/8/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/1/2017
tblConstructionPhase	PhaseStartDate	4/4/2018	9/1/2017
tblGrading	AcresOfGrading	5.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	5,000.00

tblLandUse	LandUseSquareFeet	0.00	5,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:58:37 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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					
2017	4.0829	38.5786	27.2331	0.0419	3.6305	2.1268	5.6191	1.7822	1.9740	3.6240	0.0000	4,230.3159	4,230.3159	1.1036	0.0000	4,257.9050
2018	8.4202	15.2363	12.4287	0.0203	0.1906	0.9588	1.1494	0.0511	0.9093	0.9604	0.0000	1,979.6538	1,979.6538	0.3952	0.0000	1,989.5340
<b>Maximum</b>	<b>8.4202</b>	<b>38.5786</b>	<b>27.2331</b>	<b>0.0419</b>	<b>3.6305</b>	<b>2.1268</b>	<b>5.6191</b>	<b>1.7822</b>	<b>1.9740</b>	<b>3.6240</b>	<b>0.0000</b>	<b>4,230.3159</b>	<b>4,230.3159</b>	<b>1.1036</b>	<b>0.0000</b>	<b>4,257.9050</b>

## Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.0829	38.5786	27.2331	0.0419	1.6848	2.1268	3.6734	0.7988	1.9740	2.6406	0.0000	4,230.3159	4,230.3159	1.1036	0.0000	4,257.9050
2018	8.4202	15.2363	12.4287	0.0203	0.1485	0.9588	1.1073	0.0408	0.9093	0.9501	0.0000	1,979.6538	1,979.6538	0.3952	0.0000	1,989.5340
<b>Maximum</b>	<b>8.4202</b>	<b>38.5786</b>	<b>27.2331</b>	<b>0.0419</b>	<b>1.6848</b>	<b>2.1268</b>	<b>3.6734</b>	<b>0.7988</b>	<b>1.9740</b>	<b>2.6406</b>	<b>0.0000</b>	<b>4,230.3159</b>	<b>4,230.3159</b>	<b>1.1036</b>	<b>0.0000</b>	<b>4,257.9050</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	52.02	0.00	29.37	54.20	0.00	21.68	0.00	0.00	0.00	0.00	0.00	0.00

## 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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		1.1052	1.1052	3.0000e-003		1.1801
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>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>1.1801</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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
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>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>1.8700e-003</b>	<b>1.8700e-003</b>			<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>1.1801</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	Demolition	Demolition	6/8/2017	7/8/2017	5	22	
2	Grading	Grading	6/1/2017	7/1/2017	5	22	
3	Building Construction	Building Construction	7/9/2017	3/9/2018	5	175	
4	Architectural Coating	Architectural Coating	2/10/2018	3/10/2018	5	20	
5	Paving	Paving	9/1/2017	10/1/2017	5	21	

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

**Acres of Grading (Grading Phase): 4.9**

**Acres of Paving: 0.45**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area:**



## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

## 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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	11.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0516	21.3737	11.5061	0.0194		1.0967	1.0967		1.0213	1.0213		1,962.1417	1,962.1417	0.5365		1,975.5535
<b>Total</b>	<b>2.0516</b>	<b>21.3737</b>	<b>11.5061</b>	<b>0.0194</b>	<b>0.0000</b>	<b>1.0967</b>	<b>1.0967</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>		<b>1,962.1417</b>	<b>1,962.1417</b>	<b>0.5365</b>		<b>1,975.5535</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0516	21.3737	11.5061	0.0194		1.0967	1.0967		1.0213	1.0213	0.0000	1,962.1417	1,962.1417	0.5365		1,975.5535
<b>Total</b>	<b>2.0516</b>	<b>21.3737</b>	<b>11.5061</b>	<b>0.0194</b>	<b>0.0000</b>	<b>1.0967</b>	<b>1.0967</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>0.0000</b>	<b>1,962.1417</b>	<b>1,962.1417</b>	<b>0.5365</b>		<b>1,975.5535</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</b>

**3.3 Grading - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.2473	0.0000	3.2473	1.6806	0.0000	1.6806			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176		1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>3.2473</b>	<b>0.8887</b>	<b>4.1360</b>	<b>1.6806</b>	<b>0.8176</b>	<b>2.4982</b>		<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</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					1.3882	0.0000	1.3882	0.7185	0.0000	0.7185			0.0000			0.0000
Off-Road	1.5352	16.9434	8.5521	0.0148		0.8887	0.8887		0.8176	0.8176	0.0000	1,518.9553	1,518.9553	0.4654		1,530.5905
<b>Total</b>	<b>1.5352</b>	<b>16.9434</b>	<b>8.5521</b>	<b>0.0148</b>	<b>1.3882</b>	<b>0.8887</b>	<b>2.2769</b>	<b>0.7185</b>	<b>0.8176</b>	<b>1.5361</b>	<b>0.0000</b>	<b>1,518.9553</b>	<b>1,518.9553</b>	<b>0.4654</b>		<b>1,530.5905</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</b>

**3.4 Building Construction - 2017**

**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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992		1,422.0401	1,422.0401	0.3561		1,430.9437
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>		<b>1,422.0401</b>	<b>1,422.0401</b>	<b>0.3561</b>		<b>1,430.9437</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0429	0.5452	0.2707	1.1300e-003	0.0245	6.0600e-003	0.0306	7.0600e-003	5.7900e-003	0.0129		117.9168	117.9168	0.0120		118.2177
Worker	0.1611	0.0959	0.9368	1.5300e-003	0.1405	1.1600e-003	0.1417	0.0373	1.0700e-003	0.0383		152.1862	152.1862	9.0000e-003		152.4113
<b>Total</b>	<b>0.2040</b>	<b>0.6411</b>	<b>1.2075</b>	<b>2.6600e-003</b>	<b>0.1650</b>	<b>7.2200e-003</b>	<b>0.1723</b>	<b>0.0443</b>	<b>6.8600e-003</b>	<b>0.0512</b>		<b>270.1030</b>	<b>270.1030</b>	<b>0.0210</b>		<b>270.6290</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	1.6583	14.3395	9.7162	0.0144		0.9588	0.9588		0.8992	0.8992	0.0000	1,422.040	1,422.040	0.3561		1,430.943
<b>Total</b>	<b>1.6583</b>	<b>14.3395</b>	<b>9.7162</b>	<b>0.0144</b>		<b>0.9588</b>	<b>0.9588</b>		<b>0.8992</b>	<b>0.8992</b>	<b>0.0000</b>	<b>1,422.040</b>	<b>1,422.040</b>	<b>0.3561</b>		<b>1,430.943</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0429	0.5452	0.2707	1.1300e-003	0.0200	6.0600e-003	0.0261	5.9500e-003	5.7900e-003	0.0118		117.9168	117.9168	0.0120		118.2177
Worker	0.1611	0.0959	0.9368	1.5300e-003	0.1087	1.1600e-003	0.1099	0.0295	1.0700e-003	0.0305		152.1862	152.1862	9.0000e-003		152.4113
<b>Total</b>	<b>0.2040</b>	<b>0.6411</b>	<b>1.2075</b>	<b>2.6600e-003</b>	<b>0.1287</b>	<b>7.2200e-003</b>	<b>0.1360</b>	<b>0.0354</b>	<b>6.8600e-003</b>	<b>0.0423</b>		<b>270.1030</b>	<b>270.1030</b>	<b>0.0210</b>		<b>270.6290</b>

**3.4 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	1.4253	12.6144	9.3860	0.0144		0.8033	0.8033		0.7541	0.7541		1,405.4004	1,405.4004	0.3506		1,414.1659
<b>Total</b>	<b>1.4253</b>	<b>12.6144</b>	<b>9.3860</b>	<b>0.0144</b>		<b>0.8033</b>	<b>0.8033</b>		<b>0.7541</b>	<b>0.7541</b>		<b>1,405.4004</b>	<b>1,405.4004</b>	<b>0.3506</b>		<b>1,414.1659</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0325	0.5167	0.2148	1.1300e-003	0.0245	3.6300e-003	0.0282	7.0600e-003	3.4700e-003	0.0105		117.8776	117.8776	8.4900e-003		118.0899
Worker	0.1479	0.0841	0.8239	1.4900e-003	0.1405	1.1100e-003	0.1416	0.0373	1.0200e-003	0.0383		148.0154	148.0154	7.9100e-003		148.2132
<b>Total</b>	<b>0.1804</b>	<b>0.6008</b>	<b>1.0387</b>	<b>2.6200e-003</b>	<b>0.1650</b>	<b>4.7400e-003</b>	<b>0.1698</b>	<b>0.0443</b>	<b>4.4900e-003</b>	<b>0.0488</b>		<b>265.8930</b>	<b>265.8930</b>	<b>0.0164</b>		<b>266.3031</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	1.4253	12.6144	9.3860	0.0144		0.8033	0.8033		0.7541	0.7541	0.0000	1,405.4004	1,405.4004	0.3506		1,414.1659
<b>Total</b>	<b>1.4253</b>	<b>12.6144</b>	<b>9.3860</b>	<b>0.0144</b>		<b>0.8033</b>	<b>0.8033</b>		<b>0.7541</b>	<b>0.7541</b>	<b>0.0000</b>	<b>1,405.4004</b>	<b>1,405.4004</b>	<b>0.3506</b>		<b>1,414.1659</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0325	0.5167	0.2148	1.1300e-003	0.0200	3.6300e-003	0.0236	5.9500e-003	3.4700e-003	9.4200e-003		117.8776	117.8776	8.4900e-003		118.0899
Worker	0.1479	0.0841	0.8239	1.4900e-003	0.1087	1.1100e-003	0.1099	0.0295	1.0200e-003	0.0305		148.0154	148.0154	7.9100e-003		148.2132
<b>Total</b>	<b>0.1804</b>	<b>0.6008</b>	<b>1.0387</b>	<b>2.6200e-003</b>	<b>0.1287</b>	<b>4.7400e-003</b>	<b>0.1335</b>	<b>0.0354</b>	<b>4.4900e-003</b>	<b>0.0399</b>		<b>265.8930</b>	<b>265.8930</b>	<b>0.0164</b>		<b>266.3031</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	6.4890					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		282.1171
<b>Total</b>	<b>6.7876</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>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0153	0.1498	2.7000e-004	0.0256	2.0000e-004	0.0258	6.7700e-003	1.9000e-004	6.9600e-003		26.9119	26.9119	1.4400e-003		26.9479
<b>Total</b>	<b>0.0269</b>	<b>0.0153</b>	<b>0.1498</b>	<b>2.7000e-004</b>	<b>0.0256</b>	<b>2.0000e-004</b>	<b>0.0258</b>	<b>6.7700e-003</b>	<b>1.9000e-004</b>	<b>6.9600e-003</b>		<b>26.9119</b>	<b>26.9119</b>	<b>1.4400e-003</b>		<b>26.9479</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	6.4890					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		282.1171
<b>Total</b>	<b>6.7876</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>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0153	0.1498	2.7000e-004	0.0198	2.0000e-004	0.0200	5.3600e-003	1.9000e-004	5.5400e-003		26.9119	26.9119	1.4400e-003		26.9479
<b>Total</b>	<b>0.0269</b>	<b>0.0153</b>	<b>0.1498</b>	<b>2.7000e-004</b>	<b>0.0198</b>	<b>2.0000e-004</b>	<b>0.0200</b>	<b>5.3600e-003</b>	<b>1.9000e-004</b>	<b>5.5400e-003</b>		<b>26.9119</b>	<b>26.9119</b>	<b>1.4400e-003</b>		<b>26.9479</b>

**3.6 Paving - 2017**

**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	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0010</b>	<b>20.7178</b>	<b>15.0320</b>	<b>0.0228</b>		<b>1.1592</b>	<b>1.1592</b>		<b>1.0665</b>	<b>1.0665</b>		<b>2,330.6461</b>	<b>2,330.6461</b>	<b>0.7141</b>		<b>2,348.4988</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1916</b>	<b>1.5800e-003</b>	<b>0.1932</b>	<b>0.0508</b>	<b>1.4600e-003</b>	<b>0.0523</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</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	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0010</b>	<b>20.7178</b>	<b>15.0320</b>	<b>0.0228</b>		<b>1.1592</b>	<b>1.1592</b>		<b>1.0665</b>	<b>1.0665</b>	<b>0.0000</b>	<b>2,330.6461</b>	<b>2,330.6461</b>	<b>0.7141</b>		<b>2,348.4988</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2197	0.1307	1.2775	2.0900e-003	0.1483	1.5800e-003	0.1499	0.0402	1.4600e-003	0.0416		207.5267	207.5267	0.0123		207.8336
<b>Total</b>	<b>0.2197</b>	<b>0.1307</b>	<b>1.2775</b>	<b>2.0900e-003</b>	<b>0.1483</b>	<b>1.5800e-003</b>	<b>0.1499</b>	<b>0.0402</b>	<b>1.4600e-003</b>	<b>0.0416</b>		<b>207.5267</b>	<b>207.5267</b>	<b>0.0123</b>		<b>207.8336</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
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673
User Defined Recreational	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

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

### Mitigated

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



## 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	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
Unmitigated	0.1990	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801

### 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	0.0356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.1141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0493	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003			1.1052	1.1052	3.0000e-003		1.1801
<b>Total</b>	<b>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>			<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>		<b>1.1801</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	lb/day										lb/day					
Architectural Coating	0.0356					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0493	4.8400e-003	0.5206	4.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		1.1052	1.1052	3.0000e-003		1.1801
<b>Total</b>	<b>0.1990</b>	<b>4.8400e-003</b>	<b>0.5206</b>	<b>4.0000e-005</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.8700e-003</b>	<b>1.8700e-003</b>		<b>1.1052</b>	<b>1.1052</b>	<b>3.0000e-003</b>		<b>1.1801</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Phase II Construction - Great Basin Valleys Air Basin, Annual

**Multi-Use Facilities Project - Phase II Construction  
Great Basin Valleys Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	50.00	Space	0.45	20,000.00	0
User Defined Recreational	5,000.00	User Defined Unit	4.90	5,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<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 - Project characteristics
- Land Use - Site acreage
- Construction Phase - anticipated schedule
- Off-road Equipment -
- Off-road Equipment - Phase I and Phase II concurrent construction
- Off-road Equipment - Phase I and Phase II concurrent construction
- Off-road Equipment - Phase I and Phase II concurrent construction
- Off-road Equipment -
- Trips and VMT -
- Demolition -

Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	230.00	175.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	PhaseEndDate	5/30/2018	3/10/2018
tblConstructionPhase	PhaseEndDate	4/3/2018	3/9/2018
tblConstructionPhase	PhaseEndDate	6/30/2017	7/8/2017
tblConstructionPhase	PhaseEndDate	8/1/2017	7/1/2017
tblConstructionPhase	PhaseEndDate	5/2/2018	10/1/2017
tblConstructionPhase	PhaseStartDate	5/3/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	8/2/2017	7/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	6/8/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	6/1/2017
tblConstructionPhase	PhaseStartDate	4/4/2018	9/1/2017
tblGrading	AcresOfGrading	5.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	5,000.00

tblLandUse	LandUseSquareFeet	0.00	5,000.00
tblLandUse	LotAcreage	0.00	4.90
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	ConstructionPhaseStartDate	6/1/2017 2:58:37 PM	6/1/2017 12:00:00 AM
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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					
2017	0.1804	1.5819	1.1030	1.7500e-003	0.0517	0.0944	0.1462	0.0228	0.0881	0.1109	0.0000	158.5831	158.5831	0.0385	0.0000	159.5459
2018	0.1074	0.3512	0.2807	4.6000e-004	4.2400e-003	0.0217	0.0260	1.1400e-003	0.0205	0.0216	0.0000	40.6263	40.6263	8.5700e-003	0.0000	40.8406
<b>Maximum</b>	<b>0.1804</b>	<b>1.5819</b>	<b>1.1030</b>	<b>1.7500e-003</b>	<b>0.0517</b>	<b>0.0944</b>	<b>0.1462</b>	<b>0.0228</b>	<b>0.0881</b>	<b>0.1109</b>	<b>0.0000</b>	<b>158.5831</b>	<b>158.5831</b>	<b>0.0385</b>	<b>0.0000</b>	<b>159.5459</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1804	1.5819	1.1030	1.7500e-003	0.0278	0.0944	0.1222	0.0113	0.0881	0.0994	0.0000	158.5829	158.5829	0.0385	0.0000	159.5458
2018	0.1074	0.3512	0.2807	4.6000e-004	3.3100e-003	0.0217	0.0250	9.1000e-004	0.0205	0.0214	0.0000	40.6262	40.6262	8.5700e-003	0.0000	40.8405
<b>Maximum</b>	<b>0.1804</b>	<b>1.5819</b>	<b>1.1030</b>	<b>1.7500e-003</b>	<b>0.0278</b>	<b>0.0944</b>	<b>0.1222</b>	<b>0.0113</b>	<b>0.0881</b>	<b>0.0994</b>	<b>0.0000</b>	<b>158.5829</b>	<b>158.5829</b>	<b>0.0385</b>	<b>0.0000</b>	<b>159.5458</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>44.52</b>	<b>0.00</b>	<b>14.48</b>	<b>48.83</b>	<b>0.00</b>	<b>8.82</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	6-1-2017	8-31-2017	0.7947	0.7947
2	9-1-2017	11-30-2017	0.8019	0.8019
3	12-1-2017	2-28-2018	0.5587	0.5587
4	3-1-2018	5-31-2018	0.0792	0.0792
		<b>Highest</b>	<b>0.8019</b>	<b>0.8019</b>

**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	0.0318	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.6077	5.6077	2.3000e-004	5.0000e-005	5.6278
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>0.0318</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>5.6980</b>	<b>5.6980</b>	<b>4.7000e-004</b>	<b>5.0000e-005</b>	<b>5.7242</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	tons/yr										MT/yr					
Area	0.0318	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.6077	5.6077	2.3000e-004	5.0000e-005	5.6278
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>0.0318</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>5.6980</b>	<b>5.6980</b>	<b>4.7000e-004</b>	<b>5.0000e-005</b>	<b>5.7242</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	N20	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	6/8/2017	7/8/2017	5	22	
2	Grading	Grading	6/1/2017	7/1/2017	5	22	
3	Building Construction	Building Construction	7/9/2017	3/9/2018	5	175	
4	Architectural Coating	Architectural Coating	2/10/2018	3/10/2018	5	20	
5	Paving	Paving	9/1/2017	10/1/2017	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.9

Acres of Paving: 0.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	3	4.00	158	0.38
Demolition	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	3	4.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	3	4.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

### **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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	11.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2017

#### 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.2351	0.1266	2.1000e-004		0.0121	0.0121		0.0112	0.0112	0.0000	19.5803	19.5803	5.3500e-003	0.0000	19.7141
<b>Total</b>	<b>0.0226</b>	<b>0.2351</b>	<b>0.1266</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0121</b>	<b>0.0121</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>19.5803</b>	<b>19.5803</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>19.7141</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	2.0400e-003	2.0000e-005	2.0600e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>2.0000e-005</b>	<b>2.0600e-003</b>	<b>5.4000e-004</b>	<b>2.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.2351	0.1266	2.1000e-004		0.0121	0.0121		0.0112	0.0112	0.0000	19.5803	19.5803	5.3500e-003	0.0000	19.7141
<b>Total</b>	<b>0.0226</b>	<b>0.2351</b>	<b>0.1266</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0121</b>	<b>0.0121</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>19.5803</b>	<b>19.5803</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>19.7141</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	1.5800e-003	2.0000e-005	1.6000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.3000e-004</b>	<b>2.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</b>

### 3.3 Grading - 2017

#### 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					0.0357	0.0000	0.0357	0.0185	0.0000	0.0185	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0357</b>	<b>9.7800e-003</b>	<b>0.0455</b>	<b>0.0185</b>	<b>8.9900e-003</b>	<b>0.0275</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	2.0400e-003	2.0000e-005	2.0600e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>2.0000e-005</b>	<b>2.0600e-003</b>	<b>5.4000e-004</b>	<b>2.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</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					0.0153	0.0000	0.0153	7.9000e-003	0.0000	7.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1864	0.0941	1.6000e-004		9.7800e-003	9.7800e-003		8.9900e-003	8.9900e-003	0.0000	15.1577	15.1577	4.6400e-003	0.0000	15.2738
<b>Total</b>	<b>0.0169</b>	<b>0.1864</b>	<b>0.0941</b>	<b>1.6000e-004</b>	<b>0.0153</b>	<b>9.7800e-003</b>	<b>0.0251</b>	<b>7.9000e-003</b>	<b>8.9900e-003</b>	<b>0.0169</b>	<b>0.0000</b>	<b>15.1577</b>	<b>15.1577</b>	<b>4.6400e-003</b>	<b>0.0000</b>	<b>15.2738</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.9300e-003	1.6300e-003	0.0140	2.0000e-005	1.5800e-003	2.0000e-005	1.6000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	1.9904	1.9904	1.2000e-004	0.0000	1.9933
<b>Total</b>	<b>1.9300e-003</b>	<b>1.6300e-003</b>	<b>0.0140</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.3000e-004</b>	<b>2.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.9904</b>	<b>1.9904</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.9933</b>

### 3.4 Building Construction - 2017

#### 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	0.1036	0.8962	0.6073	9.0000e-004		0.0599	0.0599		0.0562	0.0562	0.0000	80.6283	80.6283	0.0202	0.0000	81.1331
<b>Total</b>	<b>0.1036</b>	<b>0.8962</b>	<b>0.6073</b>	<b>9.0000e-004</b>		<b>0.0599</b>	<b>0.0599</b>		<b>0.0562</b>	<b>0.0562</b>	<b>0.0000</b>	<b>80.6283</b>	<b>80.6283</b>	<b>0.0202</b>	<b>0.0000</b>	<b>81.1331</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.5800e-003	0.0350	0.0173	7.0000e-005	1.4900e-003	3.7000e-004	1.8600e-003	4.3000e-004	3.5000e-004	7.8000e-004	0.0000	6.8427	6.8427	6.7000e-004	0.0000	6.8594
Worker	8.0400e-003	6.7700e-003	0.0585	9.0000e-005	8.5000e-003	7.0000e-005	8.5700e-003	2.2600e-003	7.0000e-005	2.3300e-003	0.0000	8.2931	8.2931	5.0000e-004	0.0000	8.3056
<b>Total</b>	<b>0.0106</b>	<b>0.0418</b>	<b>0.0758</b>	<b>1.6000e-004</b>	<b>9.9900e-003</b>	<b>4.4000e-004</b>	<b>0.0104</b>	<b>2.6900e-003</b>	<b>4.2000e-004</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>15.1358</b>	<b>15.1358</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>15.1650</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	0.1036	0.8962	0.6073	9.0000e-004		0.0599	0.0599		0.0562	0.0562	0.0000	80.6282	80.6282	0.0202	0.0000	81.1331
<b>Total</b>	<b>0.1036</b>	<b>0.8962</b>	<b>0.6073</b>	<b>9.0000e-004</b>		<b>0.0599</b>	<b>0.0599</b>		<b>0.0562</b>	<b>0.0562</b>	<b>0.0000</b>	<b>80.6282</b>	<b>80.6282</b>	<b>0.0202</b>	<b>0.0000</b>	<b>81.1331</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.5800e-003	0.0350	0.0173	7.0000e-005	1.2200e-003	3.7000e-004	1.5800e-003	3.6000e-004	3.5000e-004	7.1000e-004	0.0000	6.8427	6.8427	6.7000e-004	0.0000	6.8594
Worker	8.0400e-003	6.7700e-003	0.0585	9.0000e-005	6.5900e-003	7.0000e-005	6.6600e-003	1.7900e-003	7.0000e-005	1.8600e-003	0.0000	8.2931	8.2931	5.0000e-004	0.0000	8.3056
<b>Total</b>	<b>0.0106</b>	<b>0.0418</b>	<b>0.0758</b>	<b>1.6000e-004</b>	<b>7.8100e-003</b>	<b>4.4000e-004</b>	<b>8.2400e-003</b>	<b>2.1500e-003</b>	<b>4.2000e-004</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>15.1358</b>	<b>15.1358</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>15.1650</b>



### 3.4 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	0.0356	0.3154	0.2347	3.6000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	31.8740	31.8740	7.9500e-003	0.0000	32.0727
<b>Total</b>	<b>0.0356</b>	<b>0.3154</b>	<b>0.2347</b>	<b>3.6000e-004</b>		<b>0.0201</b>	<b>0.0201</b>		<b>0.0189</b>	<b>0.0189</b>	<b>0.0000</b>	<b>31.8740</b>	<b>31.8740</b>	<b>7.9500e-003</b>	<b>0.0000</b>	<b>32.0727</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.8000e-004	0.0133	5.5500e-003	3.0000e-005	6.0000e-004	9.0000e-005	6.9000e-004	1.7000e-004	9.0000e-005	2.6000e-004	0.0000	2.7384	2.7384	1.9000e-004	0.0000	2.7431
Worker	2.9400e-003	2.3800e-003	0.0205	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.2261	3.2261	1.7000e-004	0.0000	3.2304
<b>Total</b>	<b>3.7200e-003</b>	<b>0.0157</b>	<b>0.0260</b>	<b>7.0000e-005</b>	<b>4.0000e-003</b>	<b>1.2000e-004</b>	<b>4.1200e-003</b>	<b>1.0700e-003</b>	<b>1.2000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>5.9644</b>	<b>5.9644</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>5.9736</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	0.0356	0.3154	0.2347	3.6000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	31.8739	31.8739	7.9500e-003	0.0000	32.0727
<b>Total</b>	<b>0.0356</b>	<b>0.3154</b>	<b>0.2347</b>	<b>3.6000e-004</b>		<b>0.0201</b>	<b>0.0201</b>		<b>0.0189</b>	<b>0.0189</b>	<b>0.0000</b>	<b>31.8739</b>	<b>31.8739</b>	<b>7.9500e-003</b>	<b>0.0000</b>	<b>32.0727</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.8000e-004	0.0133	5.5500e-003	3.0000e-005	4.9000e-004	9.0000e-005	5.8000e-004	1.5000e-004	9.0000e-005	2.3000e-004	0.0000	2.7384	2.7384	1.9000e-004	0.0000	2.7431
Worker	2.9400e-003	2.3800e-003	0.0205	4.0000e-005	2.6300e-003	3.0000e-005	2.6600e-003	7.2000e-004	3.0000e-005	7.4000e-004	0.0000	3.2261	3.2261	1.7000e-004	0.0000	3.2304
<b>Total</b>	<b>3.7200e-003</b>	<b>0.0157</b>	<b>0.0260</b>	<b>7.0000e-005</b>	<b>3.1200e-003</b>	<b>1.2000e-004</b>	<b>3.2400e-003</b>	<b>8.7000e-004</b>	<b>1.2000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>5.9644</b>	<b>5.9644</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>5.9736</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	0.0649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593
<b>Total</b>	<b>0.0679</b>	<b>0.0201</b>	<b>0.0185</b>	<b>3.0000e-005</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.5593</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1000e-004	1.7000e-004	1.4900e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349
<b>Total</b>	<b>2.1000e-004</b>	<b>1.7000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2346</b>	<b>0.2346</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2349</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	0.0649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593
<b>Total</b>	<b>0.0679</b>	<b>0.0201</b>	<b>0.0185</b>	<b>3.0000e-005</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.5593</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1000e-004	1.7000e-004	1.4900e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.2346	0.2346	1.0000e-005	0.0000	0.2349
<b>Total</b>	<b>2.1000e-004</b>	<b>1.7000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.2346</b>	<b>0.2346</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2349</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.2175	0.1578	2.4000e-004		0.0122	0.0122		0.0112	0.0112	0.0000	22.2004	22.2004	6.8000e-003	0.0000	22.3705
Paving	5.9000e-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>0.0210</b>	<b>0.2175</b>	<b>0.1578</b>	<b>2.4000e-004</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>22.2004</b>	<b>22.2004</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>22.3705</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.8400e-003	1.5500e-003	0.0134	2.0000e-005	1.9500e-003	2.0000e-005	1.9600e-003	5.2000e-004	2.0000e-005	5.3000e-004	0.0000	1.8999	1.8999	1.1000e-004	0.0000	1.9027
<b>Total</b>	<b>1.8400e-003</b>	<b>1.5500e-003</b>	<b>0.0134</b>	<b>2.0000e-005</b>	<b>1.9500e-003</b>	<b>2.0000e-005</b>	<b>1.9600e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.8999</b>	<b>1.8999</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9027</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.2175	0.1578	2.4000e-004		0.0122	0.0122		0.0112	0.0112	0.0000	22.2004	22.2004	6.8000e-003	0.0000	22.3705
Paving	5.9000e-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>0.0210</b>	<b>0.2175</b>	<b>0.1578</b>	<b>2.4000e-004</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0112</b>	<b>0.0112</b>	<b>0.0000</b>	<b>22.2004</b>	<b>22.2004</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>22.3705</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.8400e-003	1.5500e-003	0.0134	2.0000e-005	1.5100e-003	2.0000e-005	1.5300e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	1.8999	1.8999	1.1000e-004	0.0000	1.9027
<b>Total</b>	<b>1.8400e-003</b>	<b>1.5500e-003</b>	<b>0.0134</b>	<b>2.0000e-005</b>	<b>1.5100e-003</b>	<b>2.0000e-005</b>	<b>1.5300e-003</b>	<b>4.1000e-004</b>	<b>2.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.8999</b>	<b>1.8999</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9027</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	tons/yr										MT/yr					
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	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673
User Defined Recreational	0.478691	0.054374	0.195682	0.159777	0.042818	0.007921	0.007143	0.010556	0.001900	0.000600	0.032048	0.000818	0.007673





**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	17600	5.6077	2.3000e-004	5.0000e-005	5.6278
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6077</b>	<b>2.3000e-004</b>	<b>5.0000e-005</b>	<b>5.6278</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	17600	5.6077	2.3000e-004	5.0000e-005	5.6278
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6077</b>	<b>2.3000e-004</b>	<b>5.0000e-005</b>	<b>5.6278</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	tons/yr										MT/yr					
Mitigated	0.0318	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964
Unmitigated	0.0318	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964
<b>Total</b>	<b>0.0318</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0902</b>	<b>0.0902</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0964</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	6.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0902	0.0902	2.4000e-004	0.0000	0.0964
<b>Total</b>	<b>0.0318</b>	<b>4.4000e-004</b>	<b>0.0469</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0902</b>	<b>0.0902</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0964</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 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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**11.0 Vegetation**

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**Parenthetical CALEEMOD Assumptions  
For: Mammoth Creek Park West New Community Multi-Use Facilities Project  
December 2016**

**PHASE III**

- 8,000 square feet of community center facilities.
- 57 parking spaces

**CONSTRUCTION**

**Demolition (2022)**

- 23 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Concrete/Industrial Saws	8
3	Excavators	8
2	Rubber Tired Dozers	8

**Grading (2022)**

- 23 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Excavators	8
1	Graders	8
1	Rubber Tired Dozers	8
3	Tractors/Loaders/Backhoes	8

**Building Construction (2022 - 2023)**

- 176 days.

**Equipment:**

Quantity	Type	Hours of Daily Operation
1	Cranes	7
3	Forklifts	8
1	Generator Sets	8
3	Tractors/Loaders/Backhoes	7
1	Welders	8



## **Paving (2022)**

- 22 days.

### **Equipment:**

Quantity	Type	Hours of Daily Operation
2	Pavers	8
2	Paving Equipment	8
2	Rollers	8

## **Architectural Coating (2023)**

- 21 days.

### **Equipment:**

Quantity	Type	Hours of Daily Operation
1	Air Compressors	6

Multi-Use Facilities Project - Phase III Construction - Great Basin Valleys Air Basin, Summer

**Multi-Use Facilities Project - Phase III Construction**  
**Great Basin Valleys Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	57.00	Space	0.51	22,800.00	0
User Defined Recreational	8,000.00	User Defined Unit	4.90	8,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Site acreage
- Construction Phase - anticipated schedule
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT -
- Demolition -

Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	176.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	11.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	8,000.00
tblLandUse	LotAcreage	0.00	4.90
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural





### 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	6/1/2022	7/1/2022	5	23	
2	Grading	Grading	6/15/2022	7/15/2022	5	23	
3	Building Construction	Building Construction	6/22/2022	2/22/2023	5	176	
4	Paving	Paving	9/1/2022	10/1/2022	5	22	
5	Architectural Coating	Architectural Coating	2/23/2023	3/23/2023	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.9

Acres of Paving: 0.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,000; Non-Residential Outdoor: 4,000; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

### 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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>0.0000</b>	<b>1.2427</b>	<b>1.2427</b>	<b>0.0000</b>	<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>0.0000</b>	<b>1.2427</b>	<b>1.2427</b>	<b>0.0000</b>	<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</b>

**3.3 Grading - 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					
Fugitive Dust					6.2480	0.0000	6.2480	3.3346	0.0000	3.3346			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>6.2480</b>	<b>0.9409</b>	<b>7.1889</b>	<b>3.3346</b>	<b>0.8656</b>	<b>4.2002</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</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					2.6710	0.0000	2.6710	1.4256	0.0000	1.4256			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>2.6710</b>	<b>0.9409</b>	<b>3.6119</b>	<b>1.4256</b>	<b>0.8656</b>	<b>2.2911</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0226	0.5101	0.1472	1.4400e-003	0.0307	1.1800e-003	0.0318	8.8300e-003	1.1200e-003	9.9500e-003		150.3491	150.3491	7.7200e-003		150.5423
Worker	0.1021	0.0592	0.6189	1.5400e-003	0.1661	1.1200e-003	0.1672	0.0440	1.0300e-003	0.0451		153.6846	153.6846	5.6300e-003		153.8253
<b>Total</b>	<b>0.1247</b>	<b>0.5693</b>	<b>0.7661</b>	<b>2.9800e-003</b>	<b>0.1967</b>	<b>2.3000e-003</b>	<b>0.1990</b>	<b>0.0529</b>	<b>2.1500e-003</b>	<b>0.0550</b>		<b>304.0337</b>	<b>304.0337</b>	<b>0.0134</b>		<b>304.3676</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0226	0.5101	0.1472	1.4400e-003	0.0250	1.1800e-003	0.0262	7.4400e-003	1.1200e-003	8.5600e-003		150.3491	150.3491	7.7200e-003		150.5423
Worker	0.1021	0.0592	0.6189	1.5400e-003	0.1285	1.1200e-003	0.1296	0.0348	1.0300e-003	0.0359		153.6846	153.6846	5.6300e-003		153.8253
<b>Total</b>	<b>0.1247</b>	<b>0.5693</b>	<b>0.7661</b>	<b>2.9800e-003</b>	<b>0.1535</b>	<b>2.3000e-003</b>	<b>0.1558</b>	<b>0.0423</b>	<b>2.1500e-003</b>	<b>0.0444</b>		<b>304.0337</b>	<b>304.0337</b>	<b>0.0134</b>		<b>304.3676</b>

**3.4 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0186	0.4262	0.1291	1.4200e-003	0.0307	6.1000e-004	0.0313	8.8300e-003	5.8000e-004	9.4200e-003		147.8955	147.8955	5.9200e-003		148.0435
Worker	0.0955	0.0527	0.5552	1.4900e-003	0.1661	1.0800e-003	0.1671	0.0440	1.0000e-003	0.0450		147.9669	147.9669	4.9600e-003		148.0910
<b>Total</b>	<b>0.1141</b>	<b>0.4789</b>	<b>0.6843</b>	<b>2.9100e-003</b>	<b>0.1967</b>	<b>1.6900e-003</b>	<b>0.1984</b>	<b>0.0529</b>	<b>1.5800e-003</b>	<b>0.0545</b>		<b>295.8624</b>	<b>295.8624</b>	<b>0.0109</b>		<b>296.1345</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0186	0.4262	0.1291	1.4200e-003	0.0250	6.1000e-004	0.0256	7.4400e-003	5.8000e-004	8.0200e-003		147.8955	147.8955	5.9200e-003		148.0435
Worker	0.0955	0.0527	0.5552	1.4900e-003	0.1285	1.0800e-003	0.1296	0.0348	1.0000e-003	0.0358		147.9669	147.9669	4.9600e-003		148.0910
<b>Total</b>	<b>0.1141</b>	<b>0.4789</b>	<b>0.6843</b>	<b>2.9100e-003</b>	<b>0.1535</b>	<b>1.6900e-003</b>	<b>0.1552</b>	<b>0.0423</b>	<b>1.5800e-003</b>	<b>0.0438</b>		<b>295.8624</b>	<b>295.8624</b>	<b>0.0109</b>		<b>296.1345</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0607					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1636</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0607					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1636</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1178	0.0683	0.7141	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		177.3284	177.3284	6.5000e-003		177.4907
<b>Total</b>	<b>0.1178</b>	<b>0.0683</b>	<b>0.7141</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>177.3284</b>	<b>177.3284</b>	<b>6.5000e-003</b>		<b>177.4907</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	9.5834					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	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.7751</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>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0122	0.1281	3.4000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		34.1462	34.1462	1.1500e-003		34.1749
<b>Total</b>	<b>0.0220</b>	<b>0.0122</b>	<b>0.1281</b>	<b>3.4000e-004</b>	<b>0.0383</b>	<b>2.5000e-004</b>	<b>0.0386</b>	<b>0.0102</b>	<b>2.3000e-004</b>	<b>0.0104</b>		<b>34.1462</b>	<b>34.1462</b>	<b>1.1500e-003</b>		<b>34.1749</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	9.5834					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	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.7751</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>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0122	0.1281	3.4000e-004	0.0297	2.5000e-004	0.0299	8.0400e-003	2.3000e-004	8.2700e-003		34.1462	34.1462	1.1500e-003		34.1749
<b>Total</b>	<b>0.0220</b>	<b>0.0122</b>	<b>0.1281</b>	<b>3.4000e-004</b>	<b>0.0297</b>	<b>2.5000e-004</b>	<b>0.0299</b>	<b>8.0400e-003</b>	<b>2.3000e-004</b>	<b>8.2700e-003</b>		<b>34.1462</b>	<b>34.1462</b>	<b>1.1500e-003</b>		<b>34.1749</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
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230
User Defined Recreational	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

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

### Mitigated

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

## 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	0.3141	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843
Unmitigated	0.3141	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843

### 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	0.0551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0797	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843
<b>Total</b>	<b>0.3141</b>	<b>7.8100e-003</b>	<b>0.8340</b>	<b>6.0000e-005</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>			<b>1.7633</b>	<b>1.7633</b>	<b>4.8400e-003</b>		<b>1.8843</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	lb/day										lb/day					
Architectural Coating	0.0551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0797	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003	1.8843
<b>Total</b>	<b>0.3141</b>	<b>7.8100e-003</b>	<b>0.8340</b>	<b>6.0000e-005</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>			<b>1.7633</b>	<b>1.7633</b>	<b>4.8400e-003</b>	<b>1.8843</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Phase III Construction - Great Basin Valleys Air Basin, Winter

**Multi-Use Facilities Project - Phase III Construction  
Great Basin Valleys Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	57.00	Space	0.51	22,800.00	0
User Defined Recreational	8,000.00	User Defined Unit	4.90	8,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Site acreage
- Construction Phase - anticipated schedule
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT -
- Demolition -

Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	176.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	11.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	8,000.00
tblLandUse	LotAcreage	0.00	4.90
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural





### 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	6/1/2022	7/1/2022	5	23	
2	Grading	Grading	6/15/2022	7/15/2022	5	23	
3	Building Construction	Building Construction	6/22/2022	2/22/2023	5	176	
4	Paving	Paving	9/1/2022	10/1/2022	5	22	
5	Architectural Coating	Architectural Coating	2/23/2023	3/23/2023	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.9

Acres of Paving: 0.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,000; Non-Residential Outdoor: 4,000; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

### 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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>0.0000</b>	<b>1.2427</b>	<b>1.2427</b>	<b>0.0000</b>	<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>0.0000</b>	<b>1.2427</b>	<b>1.2427</b>	<b>0.0000</b>	<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</b>

**3.3 Grading - 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					
Fugitive Dust					6.2480	0.0000	6.2480	3.3346	0.0000	3.3346			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>6.2480</b>	<b>0.9409</b>	<b>7.1889</b>	<b>3.3346</b>	<b>0.8656</b>	<b>4.2002</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</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					2.6710	0.0000	2.6710	1.4256	0.0000	1.4256			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>2.6710</b>	<b>0.9409</b>	<b>3.6119</b>	<b>1.4256</b>	<b>0.8656</b>	<b>2.2911</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0246	0.4999	0.1638	1.3800e-003	0.0307	1.2400e-003	0.0319	8.8300e-003	1.1900e-003	0.0100		143.9254	143.9254	8.5500e-003		144.1392
Worker	0.1320	0.0615	0.6210	1.5400e-003	0.1661	1.1200e-003	0.1672	0.0440	1.0300e-003	0.0451		153.2807	153.2807	5.6400e-003		153.4217
<b>Total</b>	<b>0.1566</b>	<b>0.5613</b>	<b>0.7848</b>	<b>2.9200e-003</b>	<b>0.1967</b>	<b>2.3600e-003</b>	<b>0.1991</b>	<b>0.0529</b>	<b>2.2200e-003</b>	<b>0.0551</b>		<b>297.2061</b>	<b>297.2061</b>	<b>0.0142</b>		<b>297.5609</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0246	0.4999	0.1638	1.3800e-003	0.0250	1.2400e-003	0.0262	7.4400e-003	1.1900e-003	8.6300e-003		143.9254	143.9254	8.5500e-003		144.1392
Worker	0.1320	0.0615	0.6210	1.5400e-003	0.1285	1.1200e-003	0.1296	0.0348	1.0300e-003	0.0359		153.2807	153.2807	5.6400e-003		153.4217
<b>Total</b>	<b>0.1566</b>	<b>0.5613</b>	<b>0.7848</b>	<b>2.9200e-003</b>	<b>0.1535</b>	<b>2.3600e-003</b>	<b>0.1559</b>	<b>0.0423</b>	<b>2.2200e-003</b>	<b>0.0445</b>		<b>297.2061</b>	<b>297.2061</b>	<b>0.0142</b>		<b>297.5609</b>

**3.4 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0204	0.4178	0.1420	1.3600e-003	0.0307	6.5000e-004	0.0313	8.8300e-003	6.2000e-004	9.4500e-003		141.5561	141.5561	6.5300e-003		141.7194
Worker	0.1236	0.0548	0.5569	1.4800e-003	0.1661	1.0800e-003	0.1671	0.0440	1.0000e-003	0.0450		147.5783	147.5783	4.9700e-003		147.7025
<b>Total</b>	<b>0.1440</b>	<b>0.4726</b>	<b>0.6989</b>	<b>2.8400e-003</b>	<b>0.1967</b>	<b>1.7300e-003</b>	<b>0.1984</b>	<b>0.0529</b>	<b>1.6200e-003</b>	<b>0.0545</b>		<b>289.1343</b>	<b>289.1343</b>	<b>0.0115</b>		<b>289.4219</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0204	0.4178	0.1420	1.3600e-003	0.0250	6.5000e-004	0.0256	7.4400e-003	6.2000e-004	8.0600e-003		141.5561	141.5561	6.5300e-003		141.7194
Worker	0.1236	0.0548	0.5569	1.4800e-003	0.1285	1.0800e-003	0.1296	0.0348	1.0000e-003	0.0358		147.5783	147.5783	4.9700e-003		147.7025
<b>Total</b>	<b>0.1440</b>	<b>0.4726</b>	<b>0.6989</b>	<b>2.8400e-003</b>	<b>0.1535</b>	<b>1.7300e-003</b>	<b>0.1552</b>	<b>0.0423</b>	<b>1.6200e-003</b>	<b>0.0439</b>		<b>289.1343</b>	<b>289.1343</b>	<b>0.0115</b>		<b>289.4219</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0607					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1636</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1916	1.2900e-003	0.1929	0.0508	1.1900e-003	0.0520		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1916</b>	<b>1.2900e-003</b>	<b>0.1929</b>	<b>0.0508</b>	<b>1.1900e-003</b>	<b>0.0520</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0607					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1636</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1523	0.0709	0.7166	1.7800e-003	0.1483	1.2900e-003	0.1496	0.0402	1.1900e-003	0.0414		176.8624	176.8624	6.5000e-003		177.0250
<b>Total</b>	<b>0.1523</b>	<b>0.0709</b>	<b>0.7166</b>	<b>1.7800e-003</b>	<b>0.1483</b>	<b>1.2900e-003</b>	<b>0.1496</b>	<b>0.0402</b>	<b>1.1900e-003</b>	<b>0.0414</b>		<b>176.8624</b>	<b>176.8624</b>	<b>6.5000e-003</b>		<b>177.0250</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	9.5834					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	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.7751</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>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0285	0.0126	0.1285	3.4000e-004	0.0383	2.5000e-004	0.0386	0.0102	2.3000e-004	0.0104		34.0565	34.0565	1.1500e-003		34.0852
<b>Total</b>	<b>0.0285</b>	<b>0.0126</b>	<b>0.1285</b>	<b>3.4000e-004</b>	<b>0.0383</b>	<b>2.5000e-004</b>	<b>0.0386</b>	<b>0.0102</b>	<b>2.3000e-004</b>	<b>0.0104</b>		<b>34.0565</b>	<b>34.0565</b>	<b>1.1500e-003</b>		<b>34.0852</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	9.5834					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	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.7751</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>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0285	0.0126	0.1285	3.4000e-004	0.0297	2.5000e-004	0.0299	8.0400e-003	2.3000e-004	8.2700e-003		34.0565	34.0565	1.1500e-003		34.0852
<b>Total</b>	<b>0.0285</b>	<b>0.0126</b>	<b>0.1285</b>	<b>3.4000e-004</b>	<b>0.0297</b>	<b>2.5000e-004</b>	<b>0.0299</b>	<b>8.0400e-003</b>	<b>2.3000e-004</b>	<b>8.2700e-003</b>		<b>34.0565</b>	<b>34.0565</b>	<b>1.1500e-003</b>		<b>34.0852</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
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230
User Defined Recreational	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

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

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

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

### Mitigated

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

## 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	0.3141	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843
Unmitigated	0.3141	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843

### 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	0.0551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	0.0797	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003		1.8843
<b>Total</b>	<b>0.3141</b>	<b>7.8100e-003</b>	<b>0.8340</b>	<b>6.0000e-005</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>			<b>1.7633</b>	<b>1.7633</b>	<b>4.8400e-003</b>		<b>1.8843</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	lb/day										lb/day					
Architectural Coating	0.0551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0797	7.8100e-003	0.8340	6.0000e-005		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			1.7633	1.7633	4.8400e-003	1.8843
<b>Total</b>	<b>0.3141</b>	<b>7.8100e-003</b>	<b>0.8340</b>	<b>6.0000e-005</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>		<b>3.0000e-003</b>	<b>3.0000e-003</b>			<b>1.7633</b>	<b>1.7633</b>	<b>4.8400e-003</b>	<b>1.8843</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Phase III Construction - Great Basin Valleys Air Basin, Annual

**Multi-Use Facilities Project - Phase III Construction**  
**Great Basin Valleys Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	57.00	Space	0.51	22,800.00	0
User Defined Recreational	8,000.00	User Defined Unit	4.90	8,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<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 - Site acreage
- Construction Phase - anticipated schedule
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT -
- Demolition -



Grading - Site acreage

Architectural Coating -

Vehicle Trips - construction run only

Area Coating -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	230.00	176.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	11.50	4.90
tblLandUse	BuildingSpaceSquareFeet	0.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	8,000.00
tblLandUse	LotAcreage	0.00	4.90
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
23	4-12-2022	7-11-2022	0.6664	0.6664
24	7-12-2022	10-11-2022	0.7630	0.7630
25	10-12-2022	1-11-2023	0.5870	0.5870
26	1-12-2023	4-11-2023	0.3638	0.3638
		Highest	0.7630	0.7630

## 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	0.0500	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.3928	6.3928	2.6000e-004	5.0000e-005	6.4157
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>0.0500</b>	<b>7.0000e-004</b>	<b>0.0751</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.5368</b>	<b>6.5368</b>	<b>6.6000e-004</b>	<b>5.0000e-005</b>	<b>6.5695</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	tons/yr										MT/yr					
Area	0.0500	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.3928	6.3928	2.6000e-004	5.0000e-005	6.4157
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>0.0500</b>	<b>7.0000e-004</b>	<b>0.0751</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>6.5368</b>	<b>6.5368</b>	<b>6.6000e-004</b>	<b>5.0000e-005</b>	<b>6.5695</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/1/2022	5	23	
2	Grading	Grading	6/15/2022	7/15/2022	5	23	
3	Building Construction	Building Construction	6/22/2022	2/22/2023	5	176	
4	Paving	Paving	9/1/2022	10/1/2022	5	22	
5	Architectural Coating	Architectural Coating	2/23/2023	3/23/2023	5	21	

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

**Acres of Grading (Grading Phase): 4.9**

Acres of Paving: 0.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,000; Non-Residential Outdoor: 4,000; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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
Demolition	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0304	0.2958	0.2368	4.5000e-004		0.0143	0.0143		0.0133	0.0133	0.0000	39.0888	39.0888	0.0110	0.0000	39.3633
<b>Total</b>	<b>0.0304</b>	<b>0.2958</b>	<b>0.2368</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>39.0888</b>	<b>39.0888</b>	<b>0.0110</b>	<b>0.0000</b>	<b>39.3633</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3800e-003	9.2000e-004	8.1000e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7731	1.7731	7.0000e-005	0.0000	1.7747
<b>Total</b>	<b>1.3800e-003</b>	<b>9.2000e-004</b>	<b>8.1000e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.7731</b>	<b>1.7731</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7747</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0304	0.2958	0.2368	4.5000e-004		0.0143	0.0143		0.0133	0.0133	0.0000	39.0887	39.0887	0.0110	0.0000	39.3632
<b>Total</b>	<b>0.0304</b>	<b>0.2958</b>	<b>0.2368</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>0.0133</b>	<b>0.0133</b>	<b>0.0000</b>	<b>39.0887</b>	<b>39.0887</b>	<b>0.0110</b>	<b>0.0000</b>	<b>39.3632</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3800e-003	9.2000e-004	8.1000e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6700e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.7731	1.7731	7.0000e-005	0.0000	1.7747
<b>Total</b>	<b>1.3800e-003</b>	<b>9.2000e-004</b>	<b>8.1000e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.7731</b>	<b>1.7731</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7747</b>

**3.3 Grading - 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					
Fugitive Dust					0.0719	0.0000	0.0719	0.0384	0.0000	0.0384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2398	0.1756	3.4000e-004		0.0108	0.0108		9.9500e-003	9.9500e-003	0.0000	29.9630	29.9630	9.6900e-003	0.0000	30.2053
<b>Total</b>	<b>0.0224</b>	<b>0.2398</b>	<b>0.1756</b>	<b>3.4000e-004</b>	<b>0.0719</b>	<b>0.0108</b>	<b>0.0827</b>	<b>0.0384</b>	<b>9.9500e-003</b>	<b>0.0483</b>	<b>0.0000</b>	<b>29.9630</b>	<b>29.9630</b>	<b>9.6900e-003</b>	<b>0.0000</b>	<b>30.2053</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3800e-003	9.2000e-004	8.1000e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7731	1.7731	7.0000e-005	0.0000	1.7747
<b>Total</b>	<b>1.3800e-003</b>	<b>9.2000e-004</b>	<b>8.1000e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.7731</b>	<b>1.7731</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7747</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					0.0307	0.0000	0.0307	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2398	0.1756	3.4000e-004		0.0108	0.0108		9.9500e-003	9.9500e-003	0.0000	29.9630	29.9630	9.6900e-003	0.0000	30.2052
<b>Total</b>	<b>0.0224</b>	<b>0.2398</b>	<b>0.1756</b>	<b>3.4000e-004</b>	<b>0.0307</b>	<b>0.0108</b>	<b>0.0415</b>	<b>0.0164</b>	<b>9.9500e-003</b>	<b>0.0263</b>	<b>0.0000</b>	<b>29.9630</b>	<b>29.9630</b>	<b>9.6900e-003</b>	<b>0.0000</b>	<b>30.2052</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3800e-003	9.2000e-004	8.1000e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6700e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.7731	1.7731	7.0000e-005	0.0000	1.7747
<b>Total</b>	<b>1.3800e-003</b>	<b>9.2000e-004</b>	<b>8.1000e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.7731</b>	<b>1.7731</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7747</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	0.1177	1.0775	1.1291	1.8600e-003		0.0558	0.0558		0.0525	0.0525	0.0000	159.8904	159.8904	0.0383	0.0000	160.8481
<b>Total</b>	<b>0.1177</b>	<b>1.0775</b>	<b>1.1291</b>	<b>1.8600e-003</b>		<b>0.0558</b>	<b>0.0558</b>		<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>159.8904</b>	<b>159.8904</b>	<b>0.0383</b>	<b>0.0000</b>	<b>160.8481</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.6200e-003	0.0354	0.0114	1.0000e-004	2.0600e-003	8.0000e-005	2.1400e-003	6.0000e-004	8.0000e-005	6.8000e-004	0.0000	9.2422	9.2422	5.1000e-004	0.0000	9.2550
Worker	7.1900e-003	4.7900e-003	0.0421	1.0000e-004	0.0111	8.0000e-005	0.0112	2.9500e-003	7.0000e-005	3.0200e-003	0.0000	9.2199	9.2199	3.4000e-004	0.0000	9.2284
<b>Total</b>	<b>8.8100e-003</b>	<b>0.0402</b>	<b>0.0535</b>	<b>2.0000e-004</b>	<b>0.0132</b>	<b>1.6000e-004</b>	<b>0.0133</b>	<b>3.5500e-003</b>	<b>1.5000e-004</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>18.4621</b>	<b>18.4621</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>18.4834</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	0.1177	1.0775	1.1291	1.8600e-003		0.0558	0.0558		0.0525	0.0525	0.0000	159.8902	159.8902	0.0383	0.0000	160.8479
<b>Total</b>	<b>0.1177</b>	<b>1.0775</b>	<b>1.1291</b>	<b>1.8600e-003</b>		<b>0.0558</b>	<b>0.0558</b>		<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>159.8902</b>	<b>159.8902</b>	<b>0.0383</b>	<b>0.0000</b>	<b>160.8479</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.6200e-003	0.0354	0.0114	1.0000e-004	1.6800e-003	8.0000e-005	1.7700e-003	5.0000e-004	8.0000e-005	5.8000e-004	0.0000	9.2422	9.2422	5.1000e-004	0.0000	9.2550
Worker	7.1900e-003	4.7900e-003	0.0421	1.0000e-004	8.5900e-003	8.0000e-005	8.6700e-003	2.3400e-003	7.0000e-005	2.4100e-003	0.0000	9.2199	9.2199	3.4000e-004	0.0000	9.2284
<b>Total</b>	<b>8.8100e-003</b>	<b>0.0402</b>	<b>0.0535</b>	<b>2.0000e-004</b>	<b>0.0103</b>	<b>1.6000e-004</b>	<b>0.0104</b>	<b>2.8400e-003</b>	<b>1.5000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>18.4621</b>	<b>18.4621</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>18.4834</b>

**3.4 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	0.0299	0.2733	0.3086	5.1000e-004		0.0133	0.0133		0.0125	0.0125	0.0000	44.0429	44.0429	0.0105	0.0000	44.3048
<b>Total</b>	<b>0.0299</b>	<b>0.2733</b>	<b>0.3086</b>	<b>5.1000e-004</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>44.0429</b>	<b>44.0429</b>	<b>0.0105</b>	<b>0.0000</b>	<b>44.3048</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.7000e-004	8.1400e-003	2.7400e-003	3.0000e-005	5.7000e-004	1.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.5033	2.5033	1.1000e-004	0.0000	2.5060
Worker	1.8500e-003	1.1800e-003	0.0104	3.0000e-005	3.0500e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4444	2.4444	8.0000e-005	0.0000	2.4464
<b>Total</b>	<b>2.2200e-003</b>	<b>9.3200e-003</b>	<b>0.0131</b>	<b>6.0000e-005</b>	<b>3.6200e-003</b>	<b>3.0000e-005</b>	<b>3.6500e-003</b>	<b>9.7000e-004</b>	<b>3.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.9476</b>	<b>4.9476</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.9524</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	0.0299	0.2733	0.3086	5.1000e-004		0.0133	0.0133		0.0125	0.0125	0.0000	44.0429	44.0429	0.0105	0.0000	44.3048
<b>Total</b>	<b>0.0299</b>	<b>0.2733</b>	<b>0.3086</b>	<b>5.1000e-004</b>		<b>0.0133</b>	<b>0.0133</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>44.0429</b>	<b>44.0429</b>	<b>0.0105</b>	<b>0.0000</b>	<b>44.3048</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.7000e-004	8.1400e-003	2.7400e-003	3.0000e-005	4.6000e-004	1.0000e-005	4.8000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	2.5033	2.5033	1.1000e-004	0.0000	2.5060
Worker	1.8500e-003	1.1800e-003	0.0104	3.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.4444	2.4444	8.0000e-005	0.0000	2.4464
<b>Total</b>	<b>2.2200e-003</b>	<b>9.3200e-003</b>	<b>0.0131</b>	<b>6.0000e-005</b>	<b>2.8300e-003</b>	<b>3.0000e-005</b>	<b>2.8700e-003</b>	<b>7.8000e-004</b>	<b>3.0000e-005</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>4.9476</b>	<b>4.9476</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.9524</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	0.0121	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084
Paving	6.7000e-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>0.0128</b>	<b>0.1224</b>	<b>0.1604</b>	<b>2.5000e-004</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>22.0303</b>	<b>22.0303</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2084</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3200e-003	8.8000e-004	7.7500e-003	2.0000e-005	2.0400e-003	1.0000e-005	2.0500e-003	5.4000e-004	1.0000e-005	5.6000e-004	0.0000	1.6960	1.6960	6.0000e-005	0.0000	1.6975
<b>Total</b>	<b>1.3200e-003</b>	<b>8.8000e-004</b>	<b>7.7500e-003</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>1.0000e-005</b>	<b>2.0500e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.6960</b>	<b>1.6960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.6975</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	0.0121	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084
Paving	6.7000e-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>0.0128</b>	<b>0.1224</b>	<b>0.1604</b>	<b>2.5000e-004</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>22.0303</b>	<b>22.0303</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.2084</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.3200e-003	8.8000e-004	7.7500e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.6960	1.6960	6.0000e-005	0.0000	1.6975
<b>Total</b>	<b>1.3200e-003</b>	<b>8.8000e-004</b>	<b>7.7500e-003</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>1.0000e-005</b>	<b>1.6000e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.6960</b>	<b>1.6960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.6975</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	0.1006					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
<b>Total</b>	<b>0.1026</b>	<b>0.0137</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.6849</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4000e-004	1.5000e-004	1.3200e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3117	0.3117	1.0000e-005	0.0000	0.3120
<b>Total</b>	<b>2.4000e-004</b>	<b>1.5000e-004</b>	<b>1.3200e-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>0.0000</b>	<b>0.3117</b>	<b>0.3117</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3120</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	0.1006					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
<b>Total</b>	<b>0.1026</b>	<b>0.0137</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.6849</b>



#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Recreational	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230
User Defined Recreational	0.470041	0.057232	0.195774	0.162813	0.045016	0.008272	0.006982	0.010407	0.001851	0.000619	0.031937	0.000825	0.008230



**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	20064	6.3928	2.6000e-004	5.0000e-005	6.4157
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3928</b>	<b>2.6000e-004</b>	<b>5.0000e-005</b>	<b>6.4157</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	20064	6.3928	2.6000e-004	5.0000e-005	6.4157
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3928</b>	<b>2.6000e-004</b>	<b>5.0000e-005</b>	<b>6.4157</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	tons/yr										MT/yr					
Mitigated	0.0500	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538
Unmitigated	0.0500	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1700e-003	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538
<b>Total</b>	<b>0.0500</b>	<b>7.0000e-004</b>	<b>0.0751</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.1440</b>	<b>0.1440</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.1538</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	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.1700e-003	7.0000e-004	0.0751	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.1440	0.1440	4.0000e-004	0.0000	0.1538
<b>Total</b>	<b>0.0500</b>	<b>7.0000e-004</b>	<b>0.0751</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.1440</b>	<b>0.1440</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.1538</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Operational - Great Basin Valleys Air Basin, Summer

**Multi-Use Facilities Project - Operational**  
**Great Basin Valleys Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	13.00	1000sqft	0.30	13,000.00	0
Parking Lot	107.00	Space	0.96	42,800.00	0
Recreational Swimming Pool	30.00	1000sqft	0.69	30,000.00	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>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Multi-Use facilities
- Construction Phase - Operational Run Only
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Grading - 6,500 yards of excavation and export
- Vehicle Trips - Trip rate per Traffic Study
- Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	RecSwimmingAreaAllowEdit	1.00	0.00
tblLandUse	RecSwimmingAreaSquareFeet	30,000.00	0.00
tblVehicleTrips	ST_TR	0.00	5.75
tblVehicleTrips	ST_TR	9.10	4.51
tblVehicleTrips	SU_TR	0.00	5.75
tblVehicleTrips	SU_TR	13.60	4.51
tblVehicleTrips	WD_TR	27.92	5.75
tblVehicleTrips	WD_TR	33.82	4.51



## 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	0.6382	2.8704	5.6813	0.0132	0.8271	0.0163	0.8434	0.2217	0.0154	0.2370		1,334.107 1	1,334.107 1	0.0858		1,336.251 9
Unmitigated	0.6382	2.8704	5.6813	0.0132	0.8271	0.0163	0.8434	0.2217	0.0154	0.2370		1,334.107 1	1,334.107 1	0.0858		1,336.251 9

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	74.75	74.75	74.75	142,895	142,895
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	135.30	135.30	135.30	244,525	244,525
Total	210.05	210.05	210.05	387,420	387,420

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Parking Lot	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Recreational Swimming Pool	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776

#### 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	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
NaturalGas Unmitigated	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896



## 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						
Government (Civic Center)	372.548	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
<b>Total</b>		<b>4.0200e-003</b>	<b>0.0365</b>	<b>0.0307</b>	<b>2.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>			<b>43.8292</b>	<b>43.8292</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>44.0896</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						
Government (Civic Center)	0.372548	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
<b>Total</b>		<b>4.0200e-003</b>	<b>0.0365</b>	<b>0.0307</b>	<b>2.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>			<b>43.8292</b>	<b>43.8292</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>44.0896</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	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005			0.0351
Unmitigated	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005			0.0351

### 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	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.9354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.4800e-003	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005			0.0351
<b>Total</b>	<b>1.2180</b>	<b>1.5000e-004</b>	<b>0.0155</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0328</b>	<b>0.0328</b>	<b>9.0000e-005</b>			<b>0.0351</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	lb/day										lb/day					
Architectural Coating	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
<b>Total</b>	<b>1.2180</b>	<b>1.5000e-004</b>	<b>0.0155</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0328</b>	<b>0.0328</b>	<b>9.0000e-005</b>		<b>0.0351</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Operational - Great Basin Valleys Air Basin, Winter

**Multi-Use Facilities Project - Operational**  
**Great Basin Valleys Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	13.00	1000sqft	0.30	13,000.00	0
Parking Lot	107.00	Space	0.96	42,800.00	0
Recreational Swimming Pool	30.00	1000sqft	0.69	30,000.00	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>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Multi-Use facilities
- Construction Phase - Operational Run Only
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Grading - 6,500 yards of excavation and export
- Vehicle Trips - Trip rate per Traffic Study
- Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	RecSwimmingAreaAllowEdit	1.00	0.00
tblLandUse	RecSwimmingAreaSquareFeet	30,000.00	0.00
tblVehicleTrips	ST_TR	0.00	5.75
tblVehicleTrips	ST_TR	9.10	4.51
tblVehicleTrips	SU_TR	0.00	5.75
tblVehicleTrips	SU_TR	13.60	4.51
tblVehicleTrips	WD_TR	27.92	5.75
tblVehicleTrips	WD_TR	33.82	4.51

## 2.0 Emissions Summary

### 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	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
Energy	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003		43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Mobile	0.7808	2.8408	5.8040	0.0130	0.8271	0.0167	0.8438	0.2217	0.0158	0.2374		1,307.1092	1,307.1092	0.0891		1,309.3374
<b>Total</b>	<b>2.0028</b>	<b>2.8774</b>	<b>5.8502</b>	<b>0.0132</b>	<b>0.8271</b>	<b>0.0195</b>	<b>0.8466</b>	<b>0.2217</b>	<b>0.0186</b>	<b>0.2403</b>		<b>1,350.9712</b>	<b>1,350.9712</b>	<b>0.0901</b>	<b>8.0000e-004</b>	<b>1,353.4621</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	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
Energy	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003		43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Mobile	0.7808	2.8408	5.8040	0.0130	0.8271	0.0167	0.8438	0.2217	0.0158	0.2374		1,307.1092	1,307.1092	0.0891		1,309.3374
<b>Total</b>	<b>2.0028</b>	<b>2.8774</b>	<b>5.8502</b>	<b>0.0132</b>	<b>0.8271</b>	<b>0.0195</b>	<b>0.8466</b>	<b>0.2217</b>	<b>0.0186</b>	<b>0.2403</b>		<b>1,350.9712</b>	<b>1,350.9712</b>	<b>0.0901</b>	<b>8.0000e-004</b>	<b>1,353.4621</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

#### 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	0.7808	2.8408	5.8040	0.0130	0.8271	0.0167	0.8438	0.2217	0.0158	0.2374		1,307.109 2	1,307.109 2	0.0891		1,309.337 4
Unmitigated	0.7808	2.8408	5.8040	0.0130	0.8271	0.0167	0.8438	0.2217	0.0158	0.2374		1,307.109 2	1,307.109 2	0.0891		1,309.337 4

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	74.75	74.75	74.75	142,895	142,895
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	135.30	135.30	135.30	244,525	244,525
Total	210.05	210.05	210.05	387,420	387,420

#### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9



#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Parking Lot	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Recreational Swimming Pool	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776

#### 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	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
NaturalGas Unmitigated	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896

## 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						
Government (Civic Center)	372.548	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
<b>Total</b>		<b>4.0200e-003</b>	<b>0.0365</b>	<b>0.0307</b>	<b>2.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>			<b>43.8292</b>	<b>43.8292</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>44.0896</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						
Government (Civic Center)	0.372548	4.0200e-003	0.0365	0.0307	2.2000e-004		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003			43.8292	43.8292	8.4000e-004	8.0000e-004	44.0896
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
<b>Total</b>		<b>4.0200e-003</b>	<b>0.0365</b>	<b>0.0307</b>	<b>2.2000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>			<b>43.8292</b>	<b>43.8292</b>	<b>8.4000e-004</b>	<b>8.0000e-004</b>	<b>44.0896</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	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
Unmitigated	1.2180	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351

### 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	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
<b>Total</b>	<b>1.2180</b>	<b>1.5000e-004</b>	<b>0.0155</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0328</b>	<b>0.0328</b>	<b>9.0000e-005</b>		<b>0.0351</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	lb/day										lb/day					
Architectural Coating	0.2812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0155	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0328	0.0328	9.0000e-005		0.0351
<b>Total</b>	<b>1.2180</b>	<b>1.5000e-004</b>	<b>0.0155</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0328</b>	<b>0.0328</b>	<b>9.0000e-005</b>		<b>0.0351</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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Multi-Use Facilities Project - Operational - Great Basin Valleys Air Basin, Annual

**Multi-Use Facilities Project - Operational  
Great Basin Valleys Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	13.00	1000sqft	0.30	13,000.00	0
Parking Lot	107.00	Space	0.96	42,800.00	0
Recreational Swimming Pool	30.00	1000sqft	0.69	30,000.00	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>	9			<b>Operational Year</b>	2018
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Multi-Use facilities
- Construction Phase - Operational Run Only
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Grading - 6,500 yards of excavation and export
- Vehicle Trips - Trip rate per Traffic Study
- Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - GBUAPCD standard mitigation

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	BuildingSpaceSquareFeet	0.00	30,000.00
tblLandUse	RecSwimmingAreaAllowEdit	1.00	0.00
tblLandUse	RecSwimmingAreaSquareFeet	30,000.00	0.00
tblVehicleTrips	ST_TR	0.00	5.75
tblVehicleTrips	ST_TR	9.10	4.51
tblVehicleTrips	SU_TR	0.00	5.75
tblVehicleTrips	SU_TR	13.60	4.51
tblVehicleTrips	WD_TR	27.92	5.75
tblVehicleTrips	WD_TR	33.82	4.51

## 2.0 Emissions Summary

### 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	0.2222	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003
Energy	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	74.4295	74.4295	2.9100e-003	7.1000e-004	74.7129
Mobile	0.1100	0.5404	1.1138	2.3200e-003	0.1458	2.9900e-003	0.1488	0.0392	2.8200e-003	0.0420	0.0000	212.8186	212.8186	0.0147	0.0000	213.1870
Waste						0.0000	0.0000		0.0000	0.0000	49.7531	0.0000	49.7531	2.9403	0.0000	123.2612
Water						0.0000	0.0000		0.0000	0.0000	1.3822	10.4894	11.8716	0.1424	3.4400e-003	16.4573
<b>Total</b>	<b>0.3329</b>	<b>0.5471</b>	<b>1.1208</b>	<b>2.3600e-003</b>	<b>0.1458</b>	<b>3.5100e-003</b>	<b>0.1493</b>	<b>0.0392</b>	<b>3.3400e-003</b>	<b>0.0425</b>	<b>51.1353</b>	<b>297.7401</b>	<b>348.8754</b>	<b>3.1004</b>	<b>4.1500e-003</b>	<b>427.6212</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	tons/yr										MT/yr					
Area	0.2222	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003
Energy	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	74.4295	74.4295	2.9100e-003	7.1000e-004	74.7129
Mobile	0.1100	0.5404	1.1138	2.3200e-003	0.1458	2.9900e-003	0.1488	0.0392	2.8200e-003	0.0420	0.0000	212.8186	212.8186	0.0147	0.0000	213.1870
Waste						0.0000	0.0000		0.0000	0.0000	24.8765	0.0000	24.8765	1.4702	0.0000	61.6306
Water						0.0000	0.0000		0.0000	0.0000	1.1058	8.9871	10.0929	0.1140	2.7600e-003	13.7636
<b>Total</b>	<b>0.3329</b>	<b>0.5471</b>	<b>1.1208</b>	<b>2.3600e-003</b>	<b>0.1458</b>	<b>3.5100e-003</b>	<b>0.1493</b>	<b>0.0392</b>	<b>3.3400e-003</b>	<b>0.0425</b>	<b>25.9823</b>	<b>296.2378</b>	<b>322.2201</b>	<b>1.6018</b>	<b>3.4700e-003</b>	<b>363.2969</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>49.19</b>	<b>0.50</b>	<b>7.64</b>	<b>48.34</b>	<b>16.39</b>	<b>15.04</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	tons/yr										MT/yr					
Mitigated	0.1100	0.5404	1.1138	2.3200e-003	0.1458	2.9900e-003	0.1488	0.0392	2.8200e-003	0.0420	0.0000	212.8186	212.8186	0.0147	0.0000	213.1870
Unmitigated	0.1100	0.5404	1.1138	2.3200e-003	0.1458	2.9900e-003	0.1488	0.0392	2.8200e-003	0.0420	0.0000	212.8186	212.8186	0.0147	0.0000	213.1870

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	74.75	74.75	74.75	142,895	142,895
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	135.30	135.30	135.30	244,525	244,525
Total	210.05	210.05	210.05	387,420	387,420

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Parking Lot	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776
Recreational Swimming Pool	0.503626	0.045054	0.197728	0.136410	0.037729	0.008205	0.008244	0.048281	0.003607	0.002384	0.006017	0.000940	0.001776

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.1730	67.1730	2.7700e-003	5.7000e-004	67.4134
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.1730	67.1730	2.7700e-003	5.7000e-004	67.4134
NaturalGas Mitigated	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	7.2564	7.2564	1.4000e-004	1.3000e-004	7.2995
NaturalGas Unmitigated	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	7.2564	7.2564	1.4000e-004	1.3000e-004	7.2995

### 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					
Government (Civic Center)	135980	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	7.2564	7.2564	1.4000e-004	1.3000e-004	7.2995
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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>7.3000e-004</b>	<b>6.6700e-003</b>	<b>5.6000e-003</b>	<b>4.0000e-005</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>7.2564</b>	<b>7.2564</b>	<b>1.4000e-004</b>	<b>1.3000e-004</b>	<b>7.2995</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government (Civic Center)	135980	7.3000e-004	6.6700e-003	5.6000e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	7.2564	7.2564	1.4000e-004	1.3000e-004	7.2995
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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>7.3000e-004</b>	<b>6.6700e-003</b>	<b>5.6000e-003</b>	<b>4.0000e-005</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>7.2564</b>	<b>7.2564</b>	<b>1.4000e-004</b>	<b>1.3000e-004</b>	<b>7.2995</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	173160	55.1725	2.2800e-003	4.7000e-004	55.3699
Parking Lot	37664	12.0006	5.0000e-004	1.0000e-004	12.0435
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>67.1731</b>	<b>2.7800e-003</b>	<b>5.7000e-004</b>	<b>67.4134</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	173160	55.1725	2.2800e-003	4.7000e-004	55.3699
Parking Lot	37664	12.0006	5.0000e-004	1.0000e-004	12.0435
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>67.1731</b>	<b>2.7800e-003</b>	<b>5.7000e-004</b>	<b>67.4134</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	tons/yr										MT/yr					
Mitigated	0.2222	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003
Unmitigated	0.2222	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1707					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003
<b>Total</b>	<b>0.2221</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6800e-003</b>	<b>2.6800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</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	0.0513					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1707					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6800e-003	2.6800e-003	1.0000e-005	0.0000	2.8600e-003
<b>Total</b>	<b>0.2221</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6800e-003</b>	<b>2.6800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.0929	0.1140	2.7600e-003	13.7636
Unmitigated	11.8716	0.1424	3.4400e-003	16.4573

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	2.58258 / 1.58287	7.0370	0.0844	2.0400e-003	9.7552
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1.77429 / 1.08747	4.8346	0.0580	1.4000e-003	6.7021
<b>Total</b>		<b>11.8716</b>	<b>0.1424</b>	<b>3.4400e-003</b>	<b>16.4573</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	2.06606 / 1.58287	5.9827	0.0675	1.6400e-003	8.1585
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1.41944 / 1.08747	4.1102	0.0464	1.1200e-003	5.6051
<b>Total</b>		<b>10.0929</b>	<b>0.1139</b>	<b>2.7600e-003</b>	<b>13.7636</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.8765	1.4702	0.0000	61.6306
Unmitigated	49.7531	2.9403	0.0000	123.2612



## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	74.1	15.0416	0.8889	0.0000	37.2650
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	171	34.7115	2.0514	0.0000	85.9962
<b>Total</b>		<b>49.7531</b>	<b>2.9403</b>	<b>0.0000</b>	<b>123.2612</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	37.05	7.5208	0.4445	0.0000	18.6325
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	85.5	17.3557	1.0257	0.0000	42.9981
<b>Total</b>		<b>24.8766</b>	<b>1.4702</b>	<b>0.0000</b>	<b>61.6306</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

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## Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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# 11.0 Vegetation

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