

## UC Davis Hospital Demolition and Office Replacement Sacramento County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	140.00	1000sqft	3.21	140,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Natural gas source is PG&E with UC Davis central plant generating electricity from provided natural gas.

Land Use - In addition to the 130,000 square feet for the North Addition Office Building, an extra 10,000 square feet of space was added as to account for emissions from construction of the west facade and the landscape plazas.

Construction Phase - Phases set to approximate construction of North Addition Office Building 2016 through 2018. Commissioning and move-in for North Addition Office Building in 2019 and then the 2020 demolition of North/South Hospital Wing.

Off-road Equipment - Construction equipment set to match expected equipment for steel girder construction of six-story North Addition building. These amounts are expected to overestimate actual usage.

Off-road Equipment - Concrete/Industrial saw use set to 2 hours per day, lower than the CalEEMod default of 8 hours per day based on expected type of demolition activities for hte Housestaff building.

Off-road Equipment - Demolition 2: North/South Hospital Wing demolition equipment types set to match equipment projected from McCarthy North/South Tower Abatement and Feasibility Study.

Off-road Equipment - Demolition 2.1 equipment type and hours set to match anticipated usage during demo prep, abatement, and gutting phase.

Off-road Equipment - Equipment type and usage set to match expected Demolition 2.2 phase.

Trips and VMT - Trips for Demolition 2.1 and 2.2 set to 2,200 to match anticipated total hauling trips during demolition.

Demolition - Demolition 2.1 consisting of abatement, demo prep, and gutting assumed to represent 10% of total North/South Hospital Wing Demolition. Total square footage is 235,000: 23,500 assumed as mass amount for Demo 2.1 and 211,500 assumed for Demo 2.2.

Construction Off-road Equipment Mitigation - Tier 3 engines selected for most of the equipment expected in the 2020 phase.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	PhaseEndDate	11/1/2018	4/29/2020
tblConstructionPhase	PhaseEndDate	7/17/2020	7/20/2020
tblConstructionPhase	PhaseEndDate	4/17/2018	6/4/2018
tblConstructionPhase	PhaseEndDate	2/22/2016	3/14/2016
tblConstructionPhase	PhaseStartDate	6/2/2018	3/15/2018
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tblConstructionPhase	PhaseStartDate	6/5/2018	12/1/2019
tblConstructionPhase	PhaseStartDate	4/30/2020	5/1/2020
tblConstructionPhase	PhaseStartDate	4/16/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	2/20/2016	3/14/2016
tblGrading	AcresOfGrading	5.00	3.00
tblOffRoadEquipment	HorsePower	226.00	235.00
tblOffRoadEquipment	HorsePower	208.00	758.00
tblOffRoadEquipment	HorsePower	208.00	513.00
tblOffRoadEquipment	HorsePower	85.00	580.00

tblOffRoadEquipment	HorsePower	167.00	300.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	220.00
tblOffRoadEquipment	HorsePower	97.00	235.00
tblOffRoadEquipment	HorsePower	97.00	235.00
tblOffRoadEquipment	HorsePower	97.00	18.00
tblOffRoadEquipment	LoadFactor	0.43	0.38
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblOffRoadEquipment	UsageHours	8.00	3.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	HaulingTripNumber	107.00	200.00
tblTripsAndVMT	HaulingTripNumber	962.00	2,207.00
tblVehicleTrips	CC_TL	5.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.50	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00

tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	11.01	0.00

## 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					
2016	0.2895	2.5915	2.1513	3.0700e-003	0.0890	0.1550	0.2439	0.0336	0.1443	0.1778	0.0000	276.9358	276.9358	0.0611	0.0000	278.2187
2017	0.3490	2.9817	2.7511	4.1400e-003	0.0600	0.1852	0.2452	0.0163	0.1726	0.1889	0.0000	365.1089	365.1089	0.0765	0.0000	366.7153
2018	1.1045	1.1437	1.1486	1.8100e-003	0.0263	0.0673	0.0936	7.1300e-003	0.0629	0.0700	0.0000	157.0915	157.0915	0.0328	0.0000	157.7807
2019	0.0204	0.2281	0.2306	3.9000e-004	6.8800e-003	9.9600e-003	0.0168	1.5300e-003	9.1800e-003	0.0107	0.0000	34.0093	34.0093	9.5300e-003	0.0000	34.2094
2020	0.2721	3.0152	2.2762	4.9100e-003	0.1628	0.1119	0.2748	0.0299	0.1037	0.1336	0.0000	430.4276	430.4276	0.0936	0.0000	432.3926
<b>Total</b>	<b>2.0354</b>	<b>9.9601</b>	<b>8.5579</b>	<b>0.0143</b>	<b>0.3450</b>	<b>0.5293</b>	<b>0.8743</b>	<b>0.0885</b>	<b>0.4926</b>	<b>0.5810</b>	<b>0.0000</b>	<b>1,263.5730</b>	<b>1,263.5730</b>	<b>0.2735</b>	<b>0.0000</b>	<b>1,269.3168</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					
2016	0.2895	2.5915	2.1513	3.0700e-003	0.0569	0.1550	0.2118	0.0189	0.1443	0.1632	0.0000	276.9355	276.9355	0.0611	0.0000	278.2185
2017	0.3490	2.9817	2.7511	4.1400e-003	0.0600	0.1852	0.2452	0.0163	0.1726	0.1889	0.0000	365.1085	365.1085	0.0765	0.0000	366.7149
2018	1.1045	1.1437	1.1486	1.8100e-003	0.0263	0.0673	0.0936	7.1300e-003	0.0629	0.0700	0.0000	157.0914	157.0914	0.0328	0.0000	157.7806
2019	0.0204	0.2281	0.2306	3.9000e-004	5.3300e-003	9.9600e-003	0.0153	1.3000e-003	9.1800e-003	0.0105	0.0000	34.0093	34.0093	9.5300e-003	0.0000	34.2094
2020	0.2721	3.0152	2.2762	4.9100e-003	0.0885	0.1119	0.2004	0.0187	0.1037	0.1224	0.0000	430.4272	430.4272	0.0936	0.0000	432.3922
<b>Total</b>	<b>2.0354</b>	<b>9.9601</b>	<b>8.5579</b>	<b>0.0143</b>	<b>0.2370</b>	<b>0.5293</b>	<b>0.7663</b>	<b>0.0623</b>	<b>0.4926</b>	<b>0.5549</b>	<b>0.0000</b>	<b>1,263.5719</b>	<b>1,263.5719</b>	<b>0.2735</b>	<b>0.0000</b>	<b>1,269.3156</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	31.31	0.00	12.35	29.53	0.00	4.50	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	tons/yr										MT/yr					
Area	0.6443	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-003
Energy	0.0104	0.0944	0.0793	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	755.9961	755.9961	0.0315	7.9900e-003	759.1362
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	26.4294	0.0000	26.4294	1.5619	0.0000	59.2300
Water						0.0000	0.0000		0.0000	0.0000	8.8036	51.5955	60.3991	0.0326	0.0196	67.1689
<b>Total</b>	<b>0.6547</b>	<b>0.0944</b>	<b>0.0811</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>35.2330</b>	<b>807.5951</b>	<b>842.8281</b>	<b>1.6261</b>	<b>0.0276</b>	<b>885.5388</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	0.6443	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-003
Energy	8.4100e-003	0.0764	0.0642	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	661.2229	661.2229	0.0277	6.9300e-003	663.9544
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	26.4294	0.0000	26.4294	1.5619	0.0000	59.2300
Water						0.0000	0.0000		0.0000	0.0000	8.8036	51.5955	60.3991	0.0328	0.0197	67.1787
<b>Total</b>	<b>0.6527</b>	<b>0.0764</b>	<b>0.0660</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>5.8200e-003</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>5.8200e-003</b>	<b>5.8200e-003</b>	<b>35.2330</b>	<b>712.8218</b>	<b>748.0548</b>	<b>1.6224</b>	<b>0.0266</b>	<b>790.3668</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	0.30	19.01	18.58	19.30	0.00	18.94	18.94	0.00	18.94	18.94	0.00	11.74	11.24	0.23	3.77	10.75

### 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 1	Demolition	2/1/2016	2/19/2016	5	15	Housestaff Demolition
2	Site Preparation	Site Preparation	3/14/2016	3/14/2016	5	1	North Addition Site Prep
3	Grading	Grading	3/15/2016	3/28/2016	5	10	North Addition Grading
4	Building Construction	Building Construction	6/1/2016	6/1/2018	5	523	North Addition Construction
5	Architectural Coating	Architectural Coating	3/15/2018	4/15/2018	5	22	North Addition Arch. Coating
6	Paving	Paving	6/1/2018	6/4/2018	5	2	North Addition Paving (minor)
7	Demolition 2.1	Demolition	12/1/2019	4/29/2020	5	108	North/South Wing abatement/prep
8	Demolition 2.2	Demolition	5/1/2020	7/20/2020	5	57	North/South Wing Demolition

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition 1	Crawler Tractors	1	4.00	208	0.43
Demolition 1	Excavators	3	8.00	162	0.38
Demolition 1	Rubber Tired Dozers	2	8.00	255	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	220	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Aerial Lifts	2	6.00	62	0.31
Building Construction	Aerial Lifts	2	4.00	62	0.31
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition 2.1	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.1	Excavators	3	3.00	162	0.38
Demolition 2.1	Rubber Tired Dozers	2	2.00	255	0.40

Demolition 2.1	Skid Steer Loaders	8	6.00	73	0.37
Demolition 2.1	Tractors/Loaders/Backhoes	1	6.00	235	0.37
Demolition 2.2	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.2	Cranes	1	1.00	235	0.29
Demolition 2.2	Crawler Tractors	1	6.00	758	0.38
Demolition 2.2	Crawler Tractors	1	6.00	513	0.40
Demolition 2.2	Crushing/Proc. Equipment	1	4.00	580	0.78
Demolition 2.2	Excavators	3	4.00	162	0.38
Demolition 2.2	Other Material Handling Equipment	1	6.00	300	0.40
Demolition 2.2	Rubber Tired Dozers	2	6.00	255	0.40
Demolition 2.2	Tractors/Loaders/Backhoes	1	3.00	235	0.37
Demolition 2.2	Tractors/Loaders/Backhoes	2	4.00	18	0.37

**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 1	9	23.00	0.00	91.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	45.00	23.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.1	15	38.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.2	24	60.00	0.00	2,207.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

**3.2 Demolition 1 - 2016**

**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					0.0103	0.0000	0.0103	1.5500e-003	0.0000	1.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.4497	0.2952	4.1000e-004		0.0209	0.0209		0.0195	0.0195	0.0000	37.9362	37.9362	0.0106	0.0000	38.1591
<b>Total</b>	<b>0.0398</b>	<b>0.4497</b>	<b>0.2952</b>	<b>4.1000e-004</b>	<b>0.0103</b>	<b>0.0209</b>	<b>0.0312</b>	<b>1.5500e-003</b>	<b>0.0195</b>	<b>0.0210</b>	<b>0.0000</b>	<b>37.9362</b>	<b>37.9362</b>	<b>0.0106</b>	<b>0.0000</b>	<b>38.1591</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	1.1700e-003	0.0119	0.0158	3.0000e-005	7.6000e-004	1.7000e-004	9.4000e-004	2.1000e-004	1.6000e-004	3.7000e-004	0.0000	2.9907	2.9907	2.0000e-005	0.0000	2.9912
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	5.8000e-004	6.9000e-004	7.2300e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1307	1.1307	6.0000e-005	0.0000	1.1319
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0126</b>	<b>0.0230</b>	<b>5.0000e-005</b>	<b>2.0300e-003</b>	<b>1.8000e-004</b>	<b>2.2200e-003</b>	<b>5.5000e-004</b>	<b>1.7000e-004</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>4.1214</b>	<b>4.1214</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>4.1231</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					3.8000e-003	0.0000	3.8000e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0398	0.4497	0.2952	4.1000e-004		0.0209	0.0209		0.0195	0.0195	0.0000	37.9361	37.9361	0.0106	0.0000	38.1591
<b>Total</b>	<b>0.0398</b>	<b>0.4497</b>	<b>0.2952</b>	<b>4.1000e-004</b>	<b>3.8000e-003</b>	<b>0.0209</b>	<b>0.0247</b>	<b>5.8000e-004</b>	<b>0.0195</b>	<b>0.0200</b>	<b>0.0000</b>	<b>37.9361</b>	<b>37.9361</b>	<b>0.0106</b>	<b>0.0000</b>	<b>38.1591</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	1.1700e-003	0.0119	0.0158	3.0000e-005	7.6000e-004	1.7000e-004	9.4000e-004	2.1000e-004	1.6000e-004	3.7000e-004	0.0000	2.9907	2.9907	2.0000e-005	0.0000	2.9912
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	5.8000e-004	6.9000e-004	7.2300e-003	2.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1307	1.1307	6.0000e-005	0.0000	1.1319
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0126</b>	<b>0.0230</b>	<b>5.0000e-005</b>	<b>2.0300e-003</b>	<b>1.8000e-004</b>	<b>2.2200e-003</b>	<b>5.5000e-004</b>	<b>1.7000e-004</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>4.1214</b>	<b>4.1214</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>4.1231</b>

**3.3 Site Preparation - 2016**

**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					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5400e-003	0.0273	0.0206	2.0000e-005		1.4700e-003	1.4700e-003		1.3500e-003	1.3500e-003	0.0000	1.8439	1.8439	5.6000e-004	0.0000	1.8555
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0273</b>	<b>0.0206</b>	<b>2.0000e-005</b>	<b>9.0300e-003</b>	<b>1.4700e-003</b>	<b>0.0105</b>	<b>4.9700e-003</b>	<b>1.3500e-003</b>	<b>6.3200e-003</b>	<b>0.0000</b>	<b>1.8439</b>	<b>1.8439</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.8555</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	3.0000e-005	4.0000e-005	3.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0590	0.0590	0.0000	0.0000	0.0591
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0591</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					3.3500e-003	0.0000	3.3500e-003	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5400e-003	0.0273	0.0206	2.0000e-005		1.4700e-003	1.4700e-003		1.3500e-003	1.3500e-003	0.0000	1.8439	1.8439	5.6000e-004	0.0000	1.8555
<b>Total</b>	<b>2.5400e-003</b>	<b>0.0273</b>	<b>0.0206</b>	<b>2.0000e-005</b>	<b>3.3500e-003</b>	<b>1.4700e-003</b>	<b>4.8200e-003</b>	<b>1.8400e-003</b>	<b>1.3500e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>1.8439</b>	<b>1.8439</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>1.8555</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	3.0000e-005	4.0000e-005	3.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0590	0.0590	0.0000	0.0000	0.0591
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0591</b>

**3.4 Grading - 2016**

**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					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1922	0.1304	1.5000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	14.0332	14.0332	4.2300e-003	0.0000	14.1221
<b>Total</b>	<b>0.0183</b>	<b>0.1922</b>	<b>0.1304</b>	<b>1.5000e-004</b>	<b>0.0317</b>	<b>0.0110</b>	<b>0.0427</b>	<b>0.0167</b>	<b>0.0101</b>	<b>0.0268</b>	<b>0.0000</b>	<b>14.0332</b>	<b>14.0332</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>14.1221</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	2.5000e-004	3.0000e-004	3.1500e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4916	0.4916	3.0000e-005	0.0000	0.4921
<b>Total</b>	<b>2.5000e-004</b>	<b>3.0000e-004</b>	<b>3.1500e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4916</b>	<b>0.4916</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.4921</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					0.0118	0.0000	0.0118	6.2000e-003	0.0000	6.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1922	0.1304	1.5000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	14.0332	14.0332	4.2300e-003	0.0000	14.1221
<b>Total</b>	<b>0.0183</b>	<b>0.1922</b>	<b>0.1304</b>	<b>1.5000e-004</b>	<b>0.0118</b>	<b>0.0110</b>	<b>0.0227</b>	<b>6.2000e-003</b>	<b>0.0101</b>	<b>0.0163</b>	<b>0.0000</b>	<b>14.0332</b>	<b>14.0332</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>14.1221</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	2.5000e-004	3.0000e-004	3.1500e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4916	0.4916	3.0000e-005	0.0000	0.4921
<b>Total</b>	<b>2.5000e-004</b>	<b>3.0000e-004</b>	<b>3.1500e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4916</b>	<b>0.4916</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.4921</b>

**3.5 Building Construction - 2016**

**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	0.1917	1.7465	1.2444	1.7700e-003		0.1189	0.1189		0.1109	0.1109	0.0000	162.6827	162.6827	0.0441	0.0000	163.6089
<b>Total</b>	<b>0.1917</b>	<b>1.7465</b>	<b>1.2444</b>	<b>1.7700e-003</b>		<b>0.1189</b>	<b>0.1189</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>162.6827</b>	<b>162.6827</b>	<b>0.0441</b>	<b>0.0000</b>	<b>163.6089</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	0.0235	0.1490	0.2899	3.7000e-004	0.0100	2.3300e-003	0.0124	2.8700e-003	2.1400e-003	5.0100e-003	0.0000	33.2039	33.2039	2.7000e-004	0.0000	33.2095
Worker	0.0115	0.0138	0.1444	3.0000e-004	0.0253	1.9000e-004	0.0255	6.7200e-003	1.8000e-004	6.9000e-003	0.0000	22.5641	22.5641	1.2100e-003	0.0000	22.5894
<b>Total</b>	<b>0.0350</b>	<b>0.1627</b>	<b>0.4343</b>	<b>6.7000e-004</b>	<b>0.0353</b>	<b>2.5200e-003</b>	<b>0.0379</b>	<b>9.5900e-003</b>	<b>2.3200e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>55.7679</b>	<b>55.7679</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>55.7988</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	0.1917	1.7465	1.2444	1.7700e-003		0.1189	0.1189		0.1109	0.1109	0.0000	162.6825	162.6825	0.0441	0.0000	163.6087
<b>Total</b>	<b>0.1917</b>	<b>1.7465</b>	<b>1.2444</b>	<b>1.7700e-003</b>		<b>0.1189</b>	<b>0.1189</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>162.6825</b>	<b>162.6825</b>	<b>0.0441</b>	<b>0.0000</b>	<b>163.6087</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	0.0235	0.1490	0.2899	3.7000e-004	0.0100	2.3300e-003	0.0124	2.8700e-003	2.1400e-003	5.0100e-003	0.0000	33.2039	33.2039	2.7000e-004	0.0000	33.2095
Worker	0.0115	0.0138	0.1444	3.0000e-004	0.0253	1.9000e-004	0.0255	6.7200e-003	1.8000e-004	6.9000e-003	0.0000	22.5641	22.5641	1.2100e-003	0.0000	22.5894
<b>Total</b>	<b>0.0350</b>	<b>0.1627</b>	<b>0.4343</b>	<b>6.7000e-004</b>	<b>0.0353</b>	<b>2.5200e-003</b>	<b>0.0379</b>	<b>9.5900e-003</b>	<b>2.3200e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>55.7679</b>	<b>55.7679</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>55.7988</b>

**3.5 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	0.2973	2.7367	2.0818	3.0100e-003		0.1815	0.1815		0.1692	0.1692	0.0000	272.8071	272.8071	0.0742	0.0000	274.3654
<b>Total</b>	<b>0.2973</b>	<b>2.7367</b>	<b>2.0818</b>	<b>3.0100e-003</b>		<b>0.1815</b>	<b>0.1815</b>		<b>0.1692</b>	<b>0.1692</b>	<b>0.0000</b>	<b>272.8071</b>	<b>272.8071</b>	<b>0.0742</b>	<b>0.0000</b>	<b>274.3654</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	0.0344	0.2241	0.4505	6.2000e-004	0.0171	3.3400e-003	0.0204	4.8800e-003	3.0700e-003	7.9400e-003	0.0000	55.4745	55.4745	4.2000e-004	0.0000	55.4834
Worker	0.0174	0.0209	0.2188	5.1000e-004	0.0430	3.2000e-004	0.0433	0.0114	2.9000e-004	0.0117	0.0000	36.8273	36.8273	1.8700e-003	0.0000	36.8665
<b>Total</b>	<b>0.0518</b>	<b>0.2450</b>	<b>0.6693</b>	<b>1.1300e-003</b>	<b>0.0600</b>	<b>3.6600e-003</b>	<b>0.0637</b>	<b>0.0163</b>	<b>3.3600e-003</b>	<b>0.0197</b>	<b>0.0000</b>	<b>92.3018</b>	<b>92.3018</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>92.3499</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	0.2973	2.7367	2.0818	3.0100e-003		0.1815	0.1815		0.1692	0.1692	0.0000	272.8068	272.8068	0.0742	0.0000	274.3650
<b>Total</b>	<b>0.2973</b>	<b>2.7367</b>	<b>2.0818</b>	<b>3.0100e-003</b>		<b>0.1815</b>	<b>0.1815</b>		<b>0.1692</b>	<b>0.1692</b>	<b>0.0000</b>	<b>272.8068</b>	<b>272.8068</b>	<b>0.0742</b>	<b>0.0000</b>	<b>274.3650</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	0.0344	0.2241	0.4505	6.2000e-004	0.0171	3.3400e-003	0.0204	4.8800e-003	3.0700e-003	7.9400e-003	0.0000	55.4745	55.4745	4.2000e-004	0.0000	55.4834
Worker	0.0174	0.0209	0.2188	5.1000e-004	0.0430	3.2000e-004	0.0433	0.0114	2.9000e-004	0.0117	0.0000	36.8273	36.8273	1.8700e-003	0.0000	36.8665
<b>Total</b>	<b>0.0518</b>	<b>0.2450</b>	<b>0.6693</b>	<b>1.1300e-003</b>	<b>0.0600</b>	<b>3.6600e-003</b>	<b>0.0637</b>	<b>0.0163</b>	<b>3.3600e-003</b>	<b>0.0197</b>	<b>0.0000</b>	<b>92.3018</b>	<b>92.3018</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>92.3499</b>

**3.5 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	0.1076	1.0136	0.8569	1.2700e-003		0.0634	0.0634		0.0591	0.0591	0.0000	113.8601	113.8601	0.0311	0.0000	114.5134
<b>Total</b>	<b>0.1076</b>	<b>1.0136</b>	<b>0.8569</b>	<b>1.2700e-003</b>		<b>0.0634</b>	<b>0.0634</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>113.8601</b>	<b>113.8601</b>	<b>0.0311</b>	<b>0.0000</b>	<b>114.5134</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	0.0120	0.0854	0.1719	2.6000e-004	7.2100e-003	1.3000e-003	8.5100e-003	2.0600e-003	1.1900e-003	3.2600e-003	0.0000	23.0365	23.0365	1.7000e-004	0.0000	23.0401
Worker	6.5700e-003	7.9600e-003	0.0832	2.2000e-004	0.0182	1.3000e-004	0.0183	4.8300e-003	1.2000e-004	4.9600e-003	0.0000	14.9918	14.9918	7.3000e-004	0.0000	15.0071
<b>Total</b>	<b>0.0186</b>	<b>0.0934</b>	<b>0.2551</b>	<b>4.8000e-004</b>	<b>0.0254</b>	<b>1.4300e-003</b>	<b>0.0268</b>	<b>6.8900e-003</b>	<b>1.3100e-003</b>	<b>8.2200e-003</b>	<b>0.0000</b>	<b>38.0282</b>	<b>38.0282</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>38.0472</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	0.1076	1.0136	0.8569	1.2700e-003		0.0634	0.0634		0.0591	0.0591	0.0000	113.8599	113.8599	0.0311	0.0000	114.5133
<b>Total</b>	<b>0.1076</b>	<b>1.0136</b>	<b>0.8569</b>	<b>1.2700e-003</b>		<b>0.0634</b>	<b>0.0634</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>113.8599</b>	<b>113.8599</b>	<b>0.0311</b>	<b>0.0000</b>	<b>114.5133</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	0.0120	0.0854	0.1719	2.6000e-004	7.2100e-003	1.3000e-003	8.5100e-003	2.0600e-003	1.1900e-003	3.2600e-003	0.0000	23.0365	23.0365	1.7000e-004	0.0000	23.0401
Worker	6.5700e-003	7.9600e-003	0.0832	2.2000e-004	0.0182	1.3000e-004	0.0183	4.8300e-003	1.2000e-004	4.9600e-003	0.0000	14.9918	14.9918	7.3000e-004	0.0000	15.0071
<b>Total</b>	<b>0.0186</b>	<b>0.0934</b>	<b>0.2551</b>	<b>4.8000e-004</b>	<b>0.0254</b>	<b>1.4300e-003</b>	<b>0.0268</b>	<b>6.8900e-003</b>	<b>1.3100e-003</b>	<b>8.2200e-003</b>	<b>0.0000</b>	<b>38.0282</b>	<b>38.0282</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>38.0472</b>

**3.6 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	0.9734					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0221	0.0204	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	2.8086	2.8086	2.7000e-004	0.0000	2.8142
<b>Total</b>	<b>0.9766</b>	<b>0.0221</b>	<b>0.0204</b>	<b>3.0000e-005</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.8142</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	2.6000e-004	3.2000e-004	3.3300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5997	0.5997	3.0000e-005	0.0000	0.6003
<b>Total</b>	<b>2.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3300e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.5997</b>	<b>0.5997</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6003</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	0.9734					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0221	0.0204	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	2.8086	2.8086	2.7000e-004	0.0000	2.8142
<b>Total</b>	<b>0.9766</b>	<b>0.0221</b>	<b>0.0204</b>	<b>3.0000e-005</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.8142</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	2.6000e-004	3.2000e-004	3.3300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5997	0.5997	3.0000e-005	0.0000	0.6003
<b>Total</b>	<b>2.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3300e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.5997</b>	<b>0.5997</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6003</b>

**3.7 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4100e-003	0.0143	0.0123	2.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	1.6738	1.6738	5.1000e-004	0.0000	1.6844
Paving	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>1.4100e-003</b>	<b>0.0143</b>	<b>0.0123</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>1.6738</b>	<b>1.6738</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.6844</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	5.0000e-005	6.0000e-005	6.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1212	0.1212	1.0000e-005	0.0000	0.1213
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1212</b>	<b>0.1212</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1213</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	1.4100e-003	0.0143	0.0123	2.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	1.6738	1.6738	5.1000e-004	0.0000	1.6844
Paving	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>1.4100e-003</b>	<b>0.0143</b>	<b>0.0123</b>	<b>2.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>1.6738</b>	<b>1.6738</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.6844</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	5.0000e-005	6.0000e-005	6.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1212	0.1212	1.0000e-005	0.0000	0.1213
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1212</b>	<b>0.1212</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1213</b>

**3.8 Demolition 2.1 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4600e-003	0.0000	2.4600e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0190	0.2231	0.2119	3.4000e-004		9.8700e-003	9.8700e-003		9.1100e-003	9.1100e-003	0.0000	30.3086	30.3086	9.4100e-003	0.0000	30.5062
<b>Total</b>	<b>0.0190</b>	<b>0.2231</b>	<b>0.2119</b>	<b>3.4000e-004</b>	<b>2.4600e-003</b>	<b>9.8700e-003</b>	<b>0.0123</b>	<b>3.7000e-004</b>	<b>9.1100e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>30.3086</b>	<b>30.3086</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>30.5062</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	3.7000e-004	3.8200e-003	5.7700e-003	1.0000e-005	1.3500e-003	6.0000e-005	1.4200e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	1.2713	1.2713	1.0000e-005	0.0000	1.2715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	1.2300e-003	0.0129	4.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4294	2.4294	1.1000e-004	0.0000	2.4318
<b>Total</b>	<b>1.3900e-003</b>	<b>5.0500e-003</b>	<b>0.0187</b>	<b>5.0000e-005</b>	<b>4.4200e-003</b>	<b>8.0000e-005</b>	<b>4.5100e-003</b>	<b>1.1600e-003</b>	<b>8.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.7007</b>	<b>3.7007</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.7032</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					9.1000e-004	0.0000	9.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0190	0.2231	0.2119	3.4000e-004		9.8700e-003	9.8700e-003		9.1100e-003	9.1100e-003	0.0000	30.3086	30.3086	9.4100e-003	0.0000	30.5062
<b>Total</b>	<b>0.0190</b>	<b>0.2231</b>	<b>0.2119</b>	<b>3.4000e-004</b>	<b>9.1000e-004</b>	<b>9.8700e-003</b>	<b>0.0108</b>	<b>1.4000e-004</b>	<b>9.1100e-003</b>	<b>9.2500e-003</b>	<b>0.0000</b>	<b>30.3086</b>	<b>30.3086</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>30.5062</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	3.7000e-004	3.8200e-003	5.7700e-003	1.0000e-005	1.3500e-003	6.0000e-005	1.4200e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	1.2713	1.2713	1.0000e-005	0.0000	1.2715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	1.2300e-003	0.0129	4.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4294	2.4294	1.1000e-004	0.0000	2.4318
<b>Total</b>	<b>1.3900e-003</b>	<b>5.0500e-003</b>	<b>0.0187</b>	<b>5.0000e-005</b>	<b>4.4200e-003</b>	<b>8.0000e-005</b>	<b>4.5100e-003</b>	<b>1.1600e-003</b>	<b>8.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.7007</b>	<b>3.7007</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.7032</b>

**3.8 Demolition 2.1 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.6000e-003	0.0000	9.6000e-003	1.4500e-003	0.0000	1.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7988	0.8144	1.3200e-003		0.0347	0.0347		0.0320	0.0320	0.0000	115.9529	115.9529	0.0368	0.0000	116.7247
<b>Total</b>	<b>0.0694</b>	<b>0.7988</b>	<b>0.8144</b>	<b>1.3200e-003</b>	<b>9.6000e-003</b>	<b>0.0347</b>	<b>0.0443</b>	<b>1.4500e-003</b>	<b>0.0320</b>	<b>0.0334</b>	<b>0.0000</b>	<b>115.9529</b>	<b>115.9529</b>	<b>0.0368</b>	<b>0.0000</b>	<b>116.7247</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	1.2700e-003	0.0131	0.0211	6.0000e-005	1.6000e-003	2.4000e-004	1.8400e-003	4.3000e-004	2.2000e-004	6.5000e-004	0.0000	4.8556	4.8556	3.0000e-005	0.0000	4.8563
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	3.7200e-003	4.4500e-003	0.0470	1.4000e-004	0.0120	9.0000e-005	0.0121	3.1900e-003	8.0000e-005	3.2700e-003	0.0000	9.1208	9.1208	4.2000e-004	0.0000	9.1296
<b>Total</b>	<b>4.9900e-003</b>	<b>0.0175</b>	<b>0.0681</b>	<b>2.0000e-004</b>	<b>0.0136</b>	<b>3.3000e-004</b>	<b>0.0139</b>	<b>3.6200e-003</b>	<b>3.0000e-004</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>13.9763</b>	<b>13.9763</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>13.9859</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					3.5600e-003	0.0000	3.5600e-003	5.4000e-004	0.0000	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7988	0.8144	1.3200e-003		0.0347	0.0347		0.0320	0.0320	0.0000	115.9528	115.9528	0.0368	0.0000	116.7245
<b>Total</b>	<b>0.0694</b>	<b>0.7988</b>	<b>0.8144</b>	<b>1.3200e-003</b>	<b>3.5600e-003</b>	<b>0.0347</b>	<b>0.0382</b>	<b>5.4000e-004</b>	<b>0.0320</b>	<b>0.0325</b>	<b>0.0000</b>	<b>115.9528</b>	<b>115.9528</b>	<b>0.0368</b>	<b>0.0000</b>	<b>116.7245</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	1.2700e-003	0.0131	0.0211	6.0000e-005	1.6000e-003	2.4000e-004	1.8400e-003	4.3000e-004	2.2000e-004	6.5000e-004	0.0000	4.8556	4.8556	3.0000e-005	0.0000	4.8563
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	3.7200e-003	4.4500e-003	0.0470	1.4000e-004	0.0120	9.0000e-005	0.0121	3.1900e-003	8.0000e-005	3.2700e-003	0.0000	9.1208	9.1208	4.2000e-004	0.0000	9.1296
<b>Total</b>	<b>4.9900e-003</b>	<b>0.0175</b>	<b>0.0681</b>	<b>2.0000e-004</b>	<b>0.0136</b>	<b>3.3000e-004</b>	<b>0.0139</b>	<b>3.6200e-003</b>	<b>3.0000e-004</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>13.9763</b>	<b>13.9763</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>13.9859</b>

**3.9 Demolition 2.2 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1085	0.0000	0.1085	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1763	2.0128	1.0527	2.4500e-003		0.0735	0.0735		0.0683	0.0683	0.0000	223.6654	223.6654	0.0555	0.0000	224.8300
<b>Total</b>	<b>0.1763</b>	<b>2.0128</b>	<b>1.0527</b>	<b>2.4500e-003</b>	<b>0.1085</b>	<b>0.0735</b>	<b>0.1820</b>	<b>0.0164</b>	<b>0.0683</b>	<b>0.0847</b>	<b>0.0000</b>	<b>223.6654</b>	<b>223.6654</b>	<b>0.0555</b>	<b>0.0000</b>	<b>224.8300</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	0.0176	0.1813	0.2919	7.9000e-004	0.0186	3.3700e-003	0.0219	5.0900e-003	3.1000e-003	8.1900e-003	0.0000	67.2880	67.2880	4.6000e-004	0.0000	67.2978
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	3.8900e-003	4.6500e-003	0.0492	1.5000e-004	0.0126	9.0000e-005	0.0127	3.3400e-003	8.0000e-005	3.4200e-003	0.0000	9.5450	9.5450	4.4000e-004	0.0000	9.5543
<b>Total</b>	<b>0.0214</b>	<b>0.1860</b>	<b>0.3411</b>	<b>9.4000e-004</b>	<b>0.0311</b>	<b>3.4600e-003</b>	<b>0.0346</b>	<b>8.4300e-003</b>	<b>3.1800e-003</b>	<b>0.0116</b>	<b>0.0000</b>	<b>76.8330</b>	<b>76.8330</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>76.8521</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					0.0402	0.0000	0.0402	6.0900e-003	0.0000	6.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1763	2.0128	1.0527	2.4500e-003		0.0735	0.0735		0.0683	0.0683	0.0000	223.6651	223.6651	0.0555	0.0000	224.8298
<b>Total</b>	<b>0.1763</b>	<b>2.0128</b>	<b>1.0527</b>	<b>2.4500e-003</b>	<b>0.0402</b>	<b>0.0735</b>	<b>0.1137</b>	<b>6.0900e-003</b>	<b>0.0683</b>	<b>0.0743</b>	<b>0.0000</b>	<b>223.6651</b>	<b>223.6651</b>	<b>0.0555</b>	<b>0.0000</b>	<b>224.8298</b>



#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	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
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	578.0265	578.0265	0.0261	5.4100e-003	580.2518
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	653.2708	653.2708	0.0295	6.1100e-003	655.7857
NaturalGas Mitigated	8.4100e-003	0.0764	0.0642	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.1963	83.1963	1.5900e-003	1.5300e-003	83.7026
NaturalGas Unmitigated	0.0104	0.0944	0.0793	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.7253	102.7253	1.9700e-003	1.8800e-003	103.3505

### 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					
General Office Building	1.925e+006	0.0104	0.0944	0.0793	5.7000e-004		7.1700e-003	7.1700e-003		7.1700e-003	7.1700e-003	0.0000	102.7253	102.7253	1.9700e-003	1.8800e-003	103.3505
<b>Total</b>		<b>0.0104</b>	<b>0.0944</b>	<b>0.0793</b>	<b>5.7000e-004</b>		<b>7.1700e-003</b>	<b>7.1700e-003</b>		<b>7.1700e-003</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>102.7253</b>	<b>102.7253</b>	<b>1.9700e-003</b>	<b>1.8800e-003</b>	<b>103.3505</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.55904e+006	8.4100e-003	0.0764	0.0642	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.1963	83.1963	1.5900e-003	1.5300e-003	83.7026
<b>Total</b>		<b>8.4100e-003</b>	<b>0.0764</b>	<b>0.0642</b>	<b>4.6000e-004</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>	<b>0.0000</b>	<b>83.1963</b>	<b>83.1963</b>	<b>1.5900e-003</b>	<b>1.5300e-003</b>	<b>83.7026</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	2.2456e+006		653.2708	0.0295	6.1100e-003	655.7857
<b>Total</b>			<b>653.2708</b>	<b>0.0295</b>	<b>6.1100e-003</b>	<b>655.7857</b>

#### Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	1.98695e+006		578.0265	0.0261	5.4100e-003	580.2518
<b>Total</b>			<b>578.0265</b>	<b>0.0261</b>	<b>5.4100e-003</b>	<b>580.2518</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	0.6443	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-003
Unmitigated	0.6443	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-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	0.0973					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-003
<b>Total</b>	<b>0.6443</b>	<b>2.0000e-005</b>	<b>1.7900e-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>3.4700e-003</b>	<b>3.4700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.6700e-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	0.0973					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4700e-003	3.4700e-003	1.0000e-005	0.0000	3.6700e-003
<b>Total</b>	<b>0.6443</b>	<b>2.0000e-005</b>	<b>1.7900e-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>3.4700e-003</b>	<b>3.4700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.6700e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		60.3991	0.0328	0.0197	67.1787
Unmitigated		60.3991	0.0326	0.0196	67.1689

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	24.8827 / 15.2507		60.3991	0.0326	0.0196	67.1689
<b>Total</b>			<b>60.3991</b>	<b>0.0326</b>	<b>0.0196</b>	<b>67.1689</b>

### Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	24.8827 / 15.2507		60.3991	0.0328	0.0197	67.1787
<b>Total</b>			<b>60.3991</b>	<b>0.0328</b>	<b>0.0197</b>	<b>67.1787</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		26.4294	1.5619	0.0000	59.2300
Unmitigated		26.4294	1.5619	0.0000	59.2300

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	130.2		26.4294	1.5619	0.0000	59.2300
<b>Total</b>			<b>26.4294</b>	<b>1.5619</b>	<b>0.0000</b>	<b>59.2300</b>

**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	130.2		26.4294	1.5619	0.0000	59.2300
<b>Total</b>			<b>26.4294</b>	<b>1.5619</b>	<b>0.0000</b>	<b>59.2300</b>

**9.0 Operational Offroad**

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

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## UC Davis Hospital Demolition and Office Replacement Sacramento County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	140.00	1000sqft	3.21	140,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Natural gas source is PG&E with UC Davis central plant generating electricity from provided natural gas.

Land Use - In addition to the 130,000 square feet for the North Addition Office Building, an extra 10,000 square feet of space was added as to account for emissions from construction of the west facade and the landscape plazas.

Construction Phase - Phases set to approximate construction of North Addition Office Building 2016 through 2018. Commissioning and move-in for North Addition Office Building in 2019 and then the 2020 demolition of North/South Hospital Wing.

Off-road Equipment - Construction equipment set to match expected equipment for steel girder construction of six-story North Addition building. These amounts are expected to overestimate actual usage.

Off-road Equipment - Concrete/Industrial saw use set to 2 hours per day, lower than the CalEEMod default of 8 hours per day based on expected type of demolition activities for hte Housestaff building.

Off-road Equipment - Demolition 2: North/South Hospital Wing demolition equipment types set to match equipment projected from McCarthy North/South Tower Abatement and Feasibility Study.

Off-road Equipment - Demolition 2.1 equipment type and hours set to match anticipated usage during demo prep, abatement, and gutting phase.

Off-road Equipment - Equipment type and usage set to match expected Demolition 2.2 phase.

Trips and VMT - Trips for Demolition 2.1 and 2.2 set to 2,200 to match anticipated total hauling trips during demolition.

Demolition - Demolition 2.1 consisting of abatement, demo prep, and gutting assumed to represent 10% of total North/South Hospital Wing Demolition. Total square footage is 235,000: 23,500 assumed as mass amount for Demo 2.1 and 211,500 assumed for Demo 2.2.

Construction Off-road Equipment Mitigation - Tier 3 engines selected for most of the equipment expected in the 2020 phase.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	8.00	10.00
tblConstructionPhase	NumDays	18.00	2.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	7/3/2018	4/15/2018
tblConstructionPhase	PhaseEndDate	3/29/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	11/1/2018	4/29/2020
tblConstructionPhase	PhaseEndDate	7/17/2020	7/20/2020
tblConstructionPhase	PhaseEndDate	4/17/2018	6/4/2018
tblConstructionPhase	PhaseEndDate	2/22/2016	3/14/2016
tblConstructionPhase	PhaseStartDate	6/2/2018	3/15/2018
tblConstructionPhase	PhaseStartDate	3/29/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	6/5/2018	12/1/2019
tblConstructionPhase	PhaseStartDate	4/30/2020	5/1/2020
tblConstructionPhase	PhaseStartDate	4/16/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	2/20/2016	3/14/2016
tblGrading	AcresOfGrading	5.00	3.00
tblOffRoadEquipment	HorsePower	226.00	235.00
tblOffRoadEquipment	HorsePower	208.00	758.00
tblOffRoadEquipment	HorsePower	208.00	513.00
tblOffRoadEquipment	HorsePower	85.00	580.00

tblOffRoadEquipment	HorsePower	167.00	300.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	220.00
tblOffRoadEquipment	HorsePower	97.00	235.00
tblOffRoadEquipment	HorsePower	97.00	235.00
tblOffRoadEquipment	HorsePower	97.00	18.00
tblOffRoadEquipment	LoadFactor	0.43	0.38
tblOffRoadEquipment	LoadFactor	0.43	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		Building Construction
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tblOffRoadEquipment	PhaseName		Demolition 2.2



tblOffRoadEquipment	PhaseName		Demolition 2.1
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tblOffRoadEquipment	UsageHours	8.00	1.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	HaulingTripNumber	107.00	200.00
tblTripsAndVMT	HaulingTripNumber	962.00	2,207.00
tblVehicleTrips	CC_TL	5.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.50	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00

tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	11.01	0.00

## 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					
2016	5.5472	61.5321	42.3671	0.0608	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	6,199.5428	6,199.5428	1.5724	0.0000	6,232.5624
2017	2.6870	22.8327	20.8606	0.0323	0.4775	1.4242	1.9016	0.1293	1.3273	1.4566	0.0000	3,130.8931	3,130.8931	0.6486	0.0000	3,144.5132
2018	91.1127	34.4114	32.9083	0.0529	0.6296	2.0064	2.6360	0.1696	1.8627	2.0323	0.0000	5,070.7290	5,070.7290	1.2067	0.0000	5,096.0693
2019	1.8683	20.7049	21.0854	0.0357	0.6402	0.9051	1.5453	0.1428	0.8350	0.9778	0.0000	3,434.1761	3,434.1761	0.9550	0.0000	3,454.2320
2020	6.9357	76.7399	47.6103	0.1194	4.9358	2.7001	7.6359	0.8813	2.5062	3.3876	0.0000	11,664.6278	11,664.6278	2.1800	0.0000	11,710.4078
<b>Total</b>	<b>108.1509</b>	<b>216.2209</b>	<b>164.8316</b>	<b>0.3011</b>	<b>24.8862</b>	<b>9.9755</b>	<b>34.8617</b>	<b>11.2900</b>	<b>9.2357</b>	<b>20.5257</b>	<b>0.0000</b>	<b>29,499.9688</b>	<b>29,499.9688</b>	<b>6.5627</b>	<b>0.0000</b>	<b>29,637.7847</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					
2016	5.5472	61.5321	42.3671	0.0608	6.8305	2.9397	9.7702	3.7156	2.7045	6.4201	0.0000	6,199.5428	6,199.5428	1.5724	0.0000	6,232.5624
2017	2.6870	22.8327	20.8606	0.0323	0.4775	1.4242	1.9016	0.1293	1.3273	1.4566	0.0000	3,130.8931	3,130.8931	0.6486	0.0000	3,144.5132
2018	91.1127	34.4114	32.9083	0.0529	0.6296	2.0064	2.6360	0.1696	1.8627	2.0323	0.0000	5,070.7290	5,070.7290	1.2067	0.0000	5,096.0693
2019	1.8683	20.7049	21.0854	0.0357	0.4996	0.9051	1.4047	0.1215	0.8350	0.9565	0.0000	3,434.1761	3,434.1761	0.9550	0.0000	3,454.2320
2020	6.9357	76.7399	47.6103	0.1194	2.5387	2.7001	5.2388	0.5184	2.5062	3.0246	0.0000	11,664.6278	11,664.6278	2.1800	0.0000	11,710.4078
<b>Total</b>	<b>108.1509</b>	<b>216.2209</b>	<b>164.8316</b>	<b>0.3011</b>	<b>10.9758</b>	<b>9.9755</b>	<b>20.9513</b>	<b>4.6544</b>	<b>9.2357</b>	<b>13.8901</b>	<b>0.0000</b>	<b>29,499.9688</b>	<b>29,499.9688</b>	<b>6.5627</b>	<b>0.0000</b>	<b>29,637.7846</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	55.90	0.00	39.90	58.77	0.00	32.33	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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Energy	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434
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>3.5876</b>	<b>0.5172</b>	<b>0.4487</b>	<b>3.1000e-003</b>	<b>0.0000</b>	<b>0.0394</b>	<b>0.0394</b>	<b>0.0000</b>	<b>0.0394</b>	<b>0.0394</b>		<b>620.4980</b>	<b>620.4980</b>	<b>0.0120</b>	<b>0.0114</b>	<b>624.2758</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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Energy	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
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>3.5767</b>	<b>0.4189</b>	<b>0.3661</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>0.0319</b>	<b>0.0319</b>	<b>0.0000</b>	<b>0.0319</b>	<b>0.0319</b>		<b>502.5415</b>	<b>502.5415</b>	<b>9.7100e-003</b>	<b>9.2100e-003</b>	<b>505.6014</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	0.30	19.01	18.40	19.03	0.00	18.98	18.98	0.00	18.98	18.98	0.00	19.01	19.01	18.88	19.07	19.01

### 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 1	Demolition	2/1/2016	2/19/2016	5	15	Housestaff Demolition
2	Site Preparation	Site Preparation	3/14/2016	3/14/2016	5	1	North Addition Site Prep
3	Grading	Grading	3/15/2016	3/28/2016	5	10	North Addition Grading
4	Building Construction	Building Construction	6/1/2016	6/1/2018	5	523	North Addition Construction
5	Architectural Coating	Architectural Coating	3/15/2018	4/15/2018	5	22	North Addition Arch. Coating
6	Paving	Paving	6/1/2018	6/4/2018	5	2	North Addition Paving (minor)
7	Demolition 2.1	Demolition	12/1/2019	4/29/2020	5	108	North/South Wing abatement/prep
8	Demolition 2.2	Demolition	5/1/2020	7/20/2020	5	57	North/South Wing Demolition

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition 1	Crawler Tractors	1	4.00	208	0.43
Demolition 1	Excavators	3	8.00	162	0.38
Demolition 1	Rubber Tired Dozers	2	8.00	255	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	220	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Aerial Lifts	2	6.00	62	0.31
Building Construction	Aerial Lifts	2	4.00	62	0.31
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition 2.1	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.1	Excavators	3	3.00	162	0.38
Demolition 2.1	Rubber Tired Dozers	2	2.00	255	0.40

Demolition 2.1	Skid Steer Loaders	8	6.00	73	0.37
Demolition 2.1	Tractors/Loaders/Backhoes	1	6.00	235	0.37
Demolition 2.2	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.2	Cranes	1	1.00	235	0.29
Demolition 2.2	Crawler Tractors	1	6.00	758	0.38
Demolition 2.2	Crawler Tractors	1	6.00	513	0.40
Demolition 2.2	Crushing/Proc. Equipment	1	4.00	580	0.78
Demolition 2.2	Excavators	3	4.00	162	0.38
Demolition 2.2	Other Material Handling Equipment	1	6.00	300	0.40
Demolition 2.2	Rubber Tired Dozers	2	6.00	255	0.40
Demolition 2.2	Tractors/Loaders/Backhoes	1	3.00	235	0.37
Demolition 2.2	Tractors/Loaders/Backhoes	2	4.00	18	0.37

**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 1	9	23.00	0.00	91.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	45.00	23.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.1	15	38.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.2	24	60.00	0.00	2,207.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

**3.2 Demolition 1 - 2016**

**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					1.3684	0.0000	1.3684	0.2072	0.0000	0.2072			0.0000			0.0000
Off-Road	5.3106	59.9572	39.3535	0.0542		2.7880	2.7880		2.5927	2.5927		5,575.6640	5,575.6640	1.5604		5,608.4326
<b>Total</b>	<b>5.3106</b>	<b>59.9572</b>	<b>39.3535</b>	<b>0.0542</b>	<b>1.3684</b>	<b>2.7880</b>	<b>4.1563</b>	<b>0.2072</b>	<b>2.5927</b>	<b>2.7999</b>		<b>5,575.6640</b>	<b>5,575.6640</b>	<b>1.5604</b>		<b>5,608.4326</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	0.1444	1.4920	1.9037	4.3800e-003	0.1052	0.0232	0.1284	0.0288	0.0213	0.0501		440.0098	440.0098	3.0700e-003		440.0743
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	0.0922	0.0829	1.1099	2.2400e-003	0.1750	1.2900e-003	0.1763	0.0464	1.1800e-003	0.0476		183.8690	183.8690	8.8800e-003		184.0555
<b>Total</b>	<b>0.2366</b>	<b>1.5750</b>	<b>3.0136</b>	<b>6.6200e-003</b>	<b>0.2801</b>	<b>0.0245</b>	<b>0.3046</b>	<b>0.0752</b>	<b>0.0225</b>	<b>0.0977</b>		<b>623.8788</b>	<b>623.8788</b>	<b>0.0120</b>		<b>624.1298</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					0.5070	0.0000	0.5070	0.0768	0.0000	0.0768			0.0000			0.0000
Off-Road	5.3106	59.9572	39.3535	0.0542		2.7880	2.7880		2.5927	2.5927	0.0000	5,575.6640	5,575.6640	1.5604		5,608.4326
<b>Total</b>	<b>5.3106</b>	<b>59.9572</b>	<b>39.3535</b>	<b>0.0542</b>	<b>0.5070</b>	<b>2.7880</b>	<b>3.2950</b>	<b>0.0768</b>	<b>2.5927</b>	<b>2.6695</b>	<b>0.0000</b>	<b>5,575.6640</b>	<b>5,575.6640</b>	<b>1.5604</b>		<b>5,608.4326</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	0.1444	1.4920	1.9037	4.3800e-003	0.1052	0.0232	0.1284	0.0288	0.0213	0.0501		440.0098	440.0098	3.0700e-003		440.0743
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	0.0922	0.0829	1.1099	2.2400e-003	0.1750	1.2900e-003	0.1763	0.0464	1.1800e-003	0.0476		183.8690	183.8690	8.8800e-003		184.0555
<b>Total</b>	<b>0.2366</b>	<b>1.5750</b>	<b>3.0136</b>	<b>6.6200e-003</b>	<b>0.2801</b>	<b>0.0245</b>	<b>0.3046</b>	<b>0.0752</b>	<b>0.0225</b>	<b>0.0977</b>		<b>623.8788</b>	<b>623.8788</b>	<b>0.0120</b>		<b>624.1298</b>

**3.3 Site Preparation - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>		<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
<b>Total</b>	<b>0.0721</b>	<b>0.0649</b>	<b>0.8686</b>	<b>1.7500e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>143.8975</b>	<b>143.8975</b>	<b>6.9500e-003</b>		<b>144.0434</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>6.6936</b>	<b>2.9387</b>	<b>9.6322</b>	<b>3.6793</b>	<b>2.7036</b>	<b>6.3829</b>	<b>0.0000</b>	<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
<b>Total</b>	<b>0.0721</b>	<b>0.0649</b>	<b>0.8686</b>	<b>1.7500e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>143.8975</b>	<b>143.8975</b>	<b>6.9500e-003</b>		<b>144.0434</b>

**3.4 Grading - 2016**

**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					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.3402</b>	<b>2.1984</b>	<b>8.5386</b>	<b>3.3446</b>	<b>2.0225</b>	<b>5.3671</b>		<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.0601</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</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					2.3491	0.0000	2.3491	1.2392	0.0000	1.2392			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>2.3491</b>	<b>2.1984</b>	<b>4.5475</b>	<b>1.2392</b>	<b>2.0225</b>	<b>3.2617</b>	<b>0.0000</b>	<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.0601</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</b>

**3.5 Building Construction - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5056	22.8306	16.2664	0.0231		1.5542	1.5542		1.4491	1.4491		2,344.1431	2,344.1431	0.6355		2,357.4889
<b>Total</b>	<b>2.5056</b>	<b>22.8306</b>	<b>16.2664</b>	<b>0.0231</b>		<b>1.5542</b>	<b>1.5542</b>		<b>1.4491</b>	<b>1.4491</b>		<b>2,344.1431</b>	<b>2,344.1431</b>	<b>0.6355</b>		<b>2,357.4889</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	0.2779	1.8473	3.2412	4.8100e-003	0.1351	0.0303	0.1654	0.0385	0.0278	0.0663		480.2018	480.2018	3.7800e-003		480.2811
Worker	0.1803	0.1622	2.1716	4.3800e-003	0.3423	2.5200e-003	0.3448	0.0908	2.3100e-003	0.0931		359.7436	359.7436	0.0174		360.1086
<b>Total</b>	<b>0.4582</b>	<b>2.0095</b>	<b>5.4127</b>	<b>9.1900e-003</b>	<b>0.4774</b>	<b>0.0328</b>	<b>0.5102</b>	<b>0.1293</b>	<b>0.0301</b>	<b>0.1594</b>		<b>839.9454</b>	<b>839.9454</b>	<b>0.0212</b>		<b>840.3897</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5056	22.8306	16.2664	0.0231		1.5542	1.5542		1.4491	1.4491	0.0000	2,344.1431	2,344.1431	0.6355		2,357.4889
<b>Total</b>	<b>2.5056</b>	<b>22.8306</b>	<b>16.2664</b>	<b>0.0231</b>		<b>1.5542</b>	<b>1.5542</b>		<b>1.4491</b>	<b>1.4491</b>	<b>0.0000</b>	<b>2,344.1431</b>	<b>2,344.1431</b>	<b>0.6355</b>		<b>2,357.4889</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	0.2779	1.8473	3.2412	4.8100e-003	0.1351	0.0303	0.1654	0.0385	0.0278	0.0663		480.2018	480.2018	3.7800e-003		480.2811
Worker	0.1803	0.1622	2.1716	4.3800e-003	0.3423	2.5200e-003	0.3448	0.0908	2.3100e-003	0.0931		359.7436	359.7436	0.0174		360.1086
<b>Total</b>	<b>0.4582</b>	<b>2.0095</b>	<b>5.4127</b>	<b>9.1900e-003</b>	<b>0.4774</b>	<b>0.0328</b>	<b>0.5102</b>	<b>0.1293</b>	<b>0.0301</b>	<b>0.1594</b>		<b>839.9454</b>	<b>839.9454</b>	<b>0.0212</b>		<b>840.3897</b>

**3.5 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	2.2866	21.0516	16.0141	0.0231		1.3962	1.3962		1.3016	1.3016		2,313.2179	2,313.2179	0.6292		2,326.4311
<b>Total</b>	<b>2.2866</b>	<b>21.0516</b>	<b>16.0141</b>	<b>0.0231</b>		<b>1.3962</b>	<b>1.3962</b>		<b>1.3016</b>	<b>1.3016</b>		<b>2,313.2179</b>	<b>2,313.2179</b>	<b>0.6292</b>		<b>2,326.4311</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	0.2396	1.6360	2.9024	4.8000e-003	0.1351	0.0255	0.1607	0.0385	0.0234	0.0619		472.1207	472.1207	3.5200e-003		472.1946
Worker	0.1608	0.1450	1.9440	4.3800e-003	0.3423	2.4300e-003	0.3448	0.0908	2.2400e-003	0.0930		345.5546	345.5546	0.0159		345.8875
<b>Total</b>	<b>0.4004</b>	<b>1.7810</b>	<b>4.8465</b>	<b>9.1800e-003</b>	<b>0.4774</b>	<b>0.0280</b>	<b>0.5054</b>	<b>0.1293</b>	<b>0.0257</b>	<b>0.1550</b>		<b>817.6753</b>	<b>817.6753</b>	<b>0.0194</b>		<b>818.0822</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2866	21.0516	16.0141	0.0231		1.3962	1.3962		1.3016	1.3016	0.0000	2,313.2179	2,313.2179	0.6292		2,326.4311
<b>Total</b>	<b>2.2866</b>	<b>21.0516</b>	<b>16.0141</b>	<b>0.0231</b>		<b>1.3962</b>	<b>1.3962</b>		<b>1.3016</b>	<b>1.3016</b>	<b>0.0000</b>	<b>2,313.2179</b>	<b>2,313.2179</b>	<b>0.6292</b>		<b>2,326.4311</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	0.2396	1.6360	2.9024	4.8000e-003	0.1351	0.0255	0.1607	0.0385	0.0234	0.0619		472.1207	472.1207	3.5200e-003			472.1946
Worker	0.1608	0.1450	1.9440	4.3800e-003	0.3423	2.4300e-003	0.3448	0.0908	2.2400e-003	0.0930		345.5546	345.5546	0.0159			345.8875
<b>Total</b>	<b>0.4004</b>	<b>1.7810</b>	<b>4.8465</b>	<b>9.1800e-003</b>	<b>0.4774</b>	<b>0.0280</b>	<b>0.5054</b>	<b>0.1293</b>	<b>0.0257</b>	<b>0.1550</b>		<b>817.6753</b>	<b>817.6753</b>	<b>0.0194</b>			<b>818.0822</b>

**3.5 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	1.9554	18.4287	15.5797	0.0231		1.1523	1.1523		1.0751	1.0751		2,281.9863	2,281.9863	0.6235			2,295.0800
<b>Total</b>	<b>1.9554</b>	<b>18.4287</b>	<b>15.5797</b>	<b>0.0231</b>		<b>1.1523</b>	<b>1.1523</b>		<b>1.0751</b>	<b>1.0751</b>		<b>2,281.9863</b>	<b>2,281.9863</b>	<b>0.6235</b>			<b>2,295.0800</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	0.1992	1.4747	2.5328	4.7800e-003	0.1351	0.0235	0.1586	0.0385	0.0216	0.0600		463.4068	463.4068	3.4300e-003		463.4789
Worker	0.1443	0.1307	1.7535	4.3800e-003	0.3423	2.3800e-003	0.3447	0.0908	2.2000e-003	0.0930		332.5162	332.5162	0.0146		332.8226
<b>Total</b>	<b>0.3434</b>	<b>1.6054</b>	<b>4.2862</b>	<b>9.1600e-003</b>	<b>0.4774</b>	<b>0.0258</b>	<b>0.5033</b>	<b>0.1293</b>	<b>0.0238</b>	<b>0.1530</b>		<b>795.9230</b>	<b>795.9230</b>	<b>0.0180</b>		<b>796.3014</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	1.9554	18.4287	15.5797	0.0231		1.1523	1.1523		1.0751	1.0751	0.0000	2,281.9863	2,281.9863	0.6235		2,295.0800
<b>Total</b>	<b>1.9554</b>	<b>18.4287</b>	<b>15.5797</b>	<b>0.0231</b>		<b>1.1523</b>	<b>1.1523</b>		<b>1.0751</b>	<b>1.0751</b>	<b>0.0000</b>	<b>2,281.9863</b>	<b>2,281.9863</b>	<b>0.6235</b>		<b>2,295.0800</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	0.1992	1.4747	2.5328	4.7800e-003	0.1351	0.0235	0.1586	0.0385	0.0216	0.0600		463.4068	463.4068	3.4300e-003		463.4789
Worker	0.1443	0.1307	1.7535	4.3800e-003	0.3423	2.3800e-003	0.3447	0.0908	2.2000e-003	0.0930		332.5162	332.5162	0.0146		332.8226
<b>Total</b>	<b>0.3434</b>	<b>1.6054</b>	<b>4.2862</b>	<b>9.1600e-003</b>	<b>0.4774</b>	<b>0.0258</b>	<b>0.5033</b>	<b>0.1293</b>	<b>0.0238</b>	<b>0.1530</b>		<b>795.9230</b>	<b>795.9230</b>	<b>0.0180</b>		<b>796.3014</b>

**3.6 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	88.4864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>88.7850</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**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	0.0289	0.0261	0.3507	8.8000e-004	0.0685	4.8000e-004	0.0689	0.0182	4.4000e-004	0.0186		66.5032	66.5032	2.9200e-003		66.5645
<b>Total</b>	<b>0.0289</b>	<b>0.0261</b>	<b>0.3507</b>	<b>8.8000e-004</b>	<b>0.0685</b>	<b>4.8000e-004</b>	<b>0.0689</b>	<b>0.0182</b>	<b>4.4000e-004</b>	<b>0.0186</b>		<b>66.5032</b>	<b>66.5032</b>	<b>2.9200e-003</b>		<b>66.5645</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	88.4864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>88.7850</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**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	0.0289	0.0261	0.3507	8.8000e-004	0.0685	4.8000e-004	0.0689	0.0182	4.4000e-004	0.0186		66.5032	66.5032	2.9200e-003		66.5645
<b>Total</b>	<b>0.0289</b>	<b>0.0261</b>	<b>0.3507</b>	<b>8.8000e-004</b>	<b>0.0685</b>	<b>4.8000e-004</b>	<b>0.0689</b>	<b>0.0182</b>	<b>4.4000e-004</b>	<b>0.0186</b>		<b>66.5032</b>	<b>66.5032</b>	<b>2.9200e-003</b>		<b>66.5645</b>

**3.7 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4060</b>	<b>14.3192</b>	<b>12.2631</b>	<b>0.0187</b>		<b>0.8272</b>	<b>0.8272</b>		<b>0.7628</b>	<b>0.7628</b>		<b>1,845.0348</b>	<b>1,845.0348</b>	<b>0.5587</b>		<b>1,856.7667</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	0.0641	0.0581	0.7793	1.9400e-003	0.1521	1.0600e-003	0.1532	0.0404	9.8000e-004	0.0413		147.7850	147.7850	6.4800e-003		147.9211
<b>Total</b>	<b>0.0641</b>	<b>0.0581</b>	<b>0.7793</b>	<b>1.9400e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.8000e-004</b>	<b>0.0413</b>		<b>147.7850</b>	<b>147.7850</b>	<b>6.4800e-003</b>		<b>147.9211</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	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4060</b>	<b>14.3192</b>	<b>12.2631</b>	<b>0.0187</b>		<b>0.8272</b>	<b>0.8272</b>		<b>0.7628</b>	<b>0.7628</b>	<b>0.0000</b>	<b>1,845.0348</b>	<b>1,845.0348</b>	<b>0.5587</b>		<b>1,856.7667</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	0.0641	0.0581	0.7793	1.9400e-003	0.1521	1.0600e-003	0.1532	0.0404	9.8000e-004	0.0413		147.7850	147.7850	6.4800e-003		147.9211
<b>Total</b>	<b>0.0641</b>	<b>0.0581</b>	<b>0.7793</b>	<b>1.9400e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.8000e-004</b>	<b>0.0413</b>		<b>147.7850</b>	<b>147.7850</b>	<b>6.4800e-003</b>		<b>147.9211</b>

**3.8 Demolition 2.1 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2233	0.0000	0.2233	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	1.7247	20.2784	19.2642	0.0307		0.8973	0.8973		0.8278	0.8278		3,037.2309	3,037.2309	0.9427		3,057.0281
<b>Total</b>	<b>1.7247</b>	<b>20.2784</b>	<b>19.2642</b>	<b>0.0307</b>	<b>0.2233</b>	<b>0.8973</b>	<b>1.1206</b>	<b>0.0338</b>	<b>0.8278</b>	<b>0.8617</b>		<b>3,037.2309</b>	<b>3,037.2309</b>	<b>0.9427</b>		<b>3,057.0281</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	0.0316	0.3256	0.4530	1.3300e-003	0.1278	5.7700e-003	0.1336	0.0323	5.3100e-003	0.0376		127.5252	127.5252	8.6000e-004		127.5433
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	0.1120	0.1010	1.3682	3.6800e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		269.4199	269.4199	0.0115		269.6606
<b>Total</b>	<b>0.1436</b>	<b>0.4266</b>	<b>1.8212</b>	<b>5.0100e-003</b>	<b>0.4169</b>	<b>7.7600e-003</b>	<b>0.4246</b>	<b>0.1090</b>	<b>7.1500e-003</b>	<b>0.1161</b>		<b>396.9452</b>	<b>396.9452</b>	<b>0.0123</b>		<b>397.2039</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					0.0827	0.0000	0.0827	0.0125	0.0000	0.0125			0.0000			0.0000
Off-Road	1.7247	20.2784	19.2642	0.0307		0.8973	0.8973		0.8278	0.8278	0.0000	3,037.2309	3,037.2309	0.9427		3,057.0281
<b>Total</b>	<b>1.7247</b>	<b>20.2784</b>	<b>19.2642</b>	<b>0.0307</b>	<b>0.0827</b>	<b>0.8973</b>	<b>0.9801</b>	<b>0.0125</b>	<b>0.8278</b>	<b>0.8404</b>	<b>0.0000</b>	<b>3,037.2309</b>	<b>3,037.2309</b>	<b>0.9427</b>		<b>3,057.0281</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	0.0316	0.3256	0.4530	1.3300e-003	0.1278	5.7700e-003	0.1336	0.0323	5.3100e-003	0.0376		127.5252	127.5252	8.6000e-004		127.5433
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	0.1120	0.1010	1.3682	3.6800e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		269.4199	269.4199	0.0115		269.6606
<b>Total</b>	<b>0.1436</b>	<b>0.4266</b>	<b>1.8212</b>	<b>5.0100e-003</b>	<b>0.4169</b>	<b>7.7600e-003</b>	<b>0.4246</b>	<b>0.1090</b>	<b>7.1500e-003</b>	<b>0.1161</b>		<b>396.9452</b>	<b>396.9452</b>	<b>0.0123</b>		<b>397.2039</b>

**3.8 Demolition 2.1 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2233	0.0000	0.2233	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	1.6135	18.5770	18.9404	0.0307		0.8058	0.8058		0.7433	0.7433		2,972.4701	2,972.4701	0.9421		2,992.2540
<b>Total</b>	<b>1.6135</b>	<b>18.5770</b>	<b>18.9404</b>	<b>0.0307</b>	<b>0.2233</b>	<b>0.8058</b>	<b>1.0291</b>	<b>0.0338</b>	<b>0.7433</b>	<b>0.7771</b>		<b>2,972.4701</b>	<b>2,972.4701</b>	<b>0.9421</b>		<b>2,992.2540</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	0.0280	0.2854	0.4143	1.3300e-003	0.0384	5.6500e-003	0.0440	0.0103	5.1900e-003	0.0155		124.6013	124.6013	8.5000e-004		124.6192
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	0.1046	0.0936	1.2751	3.6800e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		258.7645	258.7645	0.0108		258.9920
<b>Total</b>	<b>0.1326</b>	<b>0.3789</b>	<b>1.6893</b>	<b>5.0100e-003</b>	<b>0.3275</b>	<b>7.6400e-003</b>	<b>0.3351</b>	<b>0.0870</b>	<b>7.0300e-003</b>	<b>0.0940</b>		<b>383.3657</b>	<b>383.3657</b>	<b>0.0117</b>		<b>383.6111</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					0.0827	0.0000	0.0827	0.0125	0.0000	0.0125			0.0000			0.0000
Off-Road	1.6135	18.5770	18.9404	0.0307		0.8058	0.8058		0.7433	0.7433	0.0000	2,972.4701	2,972.4701	0.9421		2,992.2540
<b>Total</b>	<b>1.6135</b>	<b>18.5770</b>	<b>18.9404</b>	<b>0.0307</b>	<b>0.0827</b>	<b>0.8058</b>	<b>0.8886</b>	<b>0.0125</b>	<b>0.7433</b>	<b>0.7559</b>	<b>0.0000</b>	<b>2,972.4701</b>	<b>2,972.4701</b>	<b>0.9421</b>		<b>2,992.2540</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	0.0280	0.2854	0.4143	1.3300e-003	0.0384	5.6500e-003	0.0440	0.0103	5.1900e-003	0.0155		124.6013	124.6013	8.5000e-004		124.6192
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	0.1046	0.0936	1.2751	3.6800e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		258.7645	258.7645	0.0108		258.9920
<b>Total</b>	<b>0.1326</b>	<b>0.3789</b>	<b>1.6893</b>	<b>5.0100e-003</b>	<b>0.3275</b>	<b>7.6400e-003</b>	<b>0.3351</b>	<b>0.0870</b>	<b>7.0300e-003</b>	<b>0.0940</b>		<b>383.3657</b>	<b>383.3657</b>	<b>0.0117</b>		<b>383.6111</b>

**3.9 Demolition 2.2 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8080	0.0000	3.8080	0.5766	0.0000	0.5766			0.0000			0.0000
Off-Road	6.1862	70.6254	36.9353	0.0859		2.5789	2.5789		2.3947	2.3947		8,650.8368	8,650.8368	2.1451		8,695.8831
<b>Total</b>	<b>6.1862</b>	<b>70.6254</b>	<b>36.9353</b>	<b>0.0859</b>	<b>3.8080</b>	<b>2.5789</b>	<b>6.3869</b>	<b>0.5766</b>	<b>2.3947</b>	<b>2.9713</b>		<b>8,650.8368</b>	<b>8,650.8368</b>	<b>2.1451</b>		<b>8,695.8831</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	0.5843	5.9668	8.6617	0.0278	0.6714	0.1181	0.7895	0.1837	0.1086	0.2923		2,605.2155	2,605.2155	0.0178		2,605.5901
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	0.1652	0.1477	2.0132	5.8000e-003	0.4564	3.1400e-003	0.4596	0.1211	2.9100e-003	0.1240		408.5755	408.5755	0.0171		408.9347
<b>Total</b>	<b>0.7495</b>	<b>6.1145</b>	<b>10.6750</b>	<b>0.0336</b>	<b>1.1279</b>	<b>0.1212</b>	<b>1.2491</b>	<b>0.3048</b>	<b>0.1115</b>	<b>0.4163</b>		<b>3,013.7910</b>	<b>3,013.7910</b>	<b>0.0349</b>		<b>3,014.5247</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					1.4109	0.0000	1.4109	0.2136	0.0000	0.2136			0.0000			0.0000
Off-Road	6.1862	70.6254	36.9353	0.0859		2.5789	2.5789		2.3947	2.3947	0.0000	8,650.8368	8,650.8368	2.1451		8,695.8831
<b>Total</b>	<b>6.1862</b>	<b>70.6254</b>	<b>36.9353</b>	<b>0.0859</b>	<b>1.4109</b>	<b>2.5789</b>	<b>3.9898</b>	<b>0.2136</b>	<b>2.3947</b>	<b>2.6083</b>	<b>0.0000</b>	<b>8,650.8368</b>	<b>8,650.8368</b>	<b>2.1451</b>		<b>8,695.8831</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	0.5843	5.9668	8.6617	0.0278	0.6714	0.1181	0.7895	0.1837	0.1086	0.2923		2,605.2155	2,605.2155	0.0178		2,605.5901
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	0.1652	0.1477	2.0132	5.8000e-003	0.4564	3.1400e-003	0.4596	0.1211	2.9100e-003	0.1240		408.5755	408.5755	0.0171		408.9347
<b>Total</b>	<b>0.7495</b>	<b>6.1145</b>	<b>10.6750</b>	<b>0.0336</b>	<b>1.1279</b>	<b>0.1212</b>	<b>1.2491</b>	<b>0.3048</b>	<b>0.1115</b>	<b>0.4163</b>		<b>3,013.7910</b>	<b>3,013.7910</b>	<b>0.0349</b>		<b>3,014.5247</b>

**4.0 Operational Detail - Mobile**

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**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
General Office Building	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
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N



## **5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
NaturalGas Unmitigated	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434

### 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					
General Office Building	5273.97	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434
<b>Total</b>		<b>0.0569</b>	<b>0.5171</b>	<b>0.4343</b>	<b>3.1000e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0393</b>	<b>0.0393</b>		<b>620.4674</b>	<b>620.4674</b>	<b>0.0119</b>	<b>0.0114</b>	<b>624.2434</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					
General Office Building	4.27134	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
<b>Total</b>		<b>0.0461</b>	<b>0.4188</b>	<b>0.3518</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>		<b>502.5109</b>	<b>502.5109</b>	<b>9.6300e-003</b>	<b>9.2100e-003</b>	<b>505.5691</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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Unmitigated	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324

### 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	0.5333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
<b>Total</b>	<b>3.5307</b>	<b>1.3000e-004</b>	<b>0.0144</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0306</b>	<b>0.0306</b>	<b>8.0000e-005</b>		<b>0.0324</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	0.5333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
<b>Total</b>	<b>3.5307</b>	<b>1.3000e-004</b>	<b>0.0144</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0306</b>	<b>0.0306</b>	<b>8.0000e-005</b>		<b>0.0324</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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## UC Davis Hospital Demolition and Office Replacement Sacramento County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	140.00	1000sqft	3.21	140,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Natural gas source is PG&E with UC Davis central plant generating electricity from provided natural gas.

Land Use - In addition to the 130,000 square feet for the North Addition Office Building, an extra 10,000 square feet of space was added as to account for emissions from construction of the west facade and the landscape plazas.

Construction Phase - Phases set to approximate construction of North Addition Office Building 2016 through 2018. Commissioning and move-in for North Addition Office Building in 2019 and then the 2020 demolition of North/South Hospital Wing.

Off-road Equipment - Construction equipment set to match expected equipment for steel girder construction of six-story North Addition building. These amounts are expected to overestimate actual usage.

Off-road Equipment - Concrete/Industrial saw use set to 2 hours per day, lower than the CalEEMod default of 8 hours per day based on expected type of demolition activities for hte Housestaff building.

Off-road Equipment - Demolition 2: North/South Hospital Wing demolition equipment types set to match equipment projected from McCarthy North/South Tower Abatement and Feasibility Study.

Off-road Equipment - Demolition 2.1 equipment type and hours set to match anticipated usage during demo prep, abatement, and gutting phase.

Off-road Equipment - Equipment type and usage set to match expected Demolition 2.2 phase.

Trips and VMT - Trips for Demolition 2.1 and 2.2 set to 2,200 to match anticipated total hauling trips during demolition.

Demolition - Demolition 2.1 consisting of abatement, demo prep, and gutting assumed to represent 10% of total North/South Hospital Wing Demolition. Total square footage is 235,000: 23,500 assumed as mass amount for Demo 2.1 and 211,500 assumed for Demo 2.2.

Construction Off-road Equipment Mitigation - Tier 3 engines selected for most of the equipment expected in the 2020 phase.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	PhaseEndDate	4/17/2018	6/4/2018
tblConstructionPhase	PhaseEndDate	2/22/2016	3/14/2016
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tblConstructionPhase	PhaseStartDate	6/5/2018	12/1/2019
tblConstructionPhase	PhaseStartDate	4/30/2020	5/1/2020
tblConstructionPhase	PhaseStartDate	4/16/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	2/20/2016	3/14/2016
tblGrading	AcresOfGrading	5.00	3.00
tblOffRoadEquipment	HorsePower	226.00	235.00
tblOffRoadEquipment	HorsePower	208.00	758.00
tblOffRoadEquipment	HorsePower	208.00	513.00
tblOffRoadEquipment	HorsePower	85.00	580.00



tblOffRoadEquipment	HorsePower	167.00	300.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	220.00
tblOffRoadEquipment	HorsePower	97.00	235.00
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tblOffRoadEquipment	UsageHours	8.00	4.00
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tblTripsAndVMT	HaulingTripNumber	962.00	2,207.00
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tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.50	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	10.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00

tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	WD_TR	11.01	0.00

## 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					
2016	5.5704	61.6851	42.8367	0.0606	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	6,176.0377	6,176.0377	1.5724	0.0000	6,209.0582
2017	2.7380	22.9841	22.1422	0.0317	0.4775	1.4245	1.9020	0.1293	1.3277	1.4569	0.0000	3,084.5530	3,084.5530	0.6487	0.0000	3,098.1754
2018	91.1431	34.5605	34.1334	0.0521	0.6296	2.0068	2.6363	0.1696	1.8630	2.0326	0.0000	5,007.9489	5,007.9489	1.2068	0.0000	5,033.2915
2019	1.8572	20.7585	21.1070	0.0353	0.6402	0.9051	1.5453	0.1428	0.8350	0.9778	0.0000	3,400.9327	3,400.9327	0.9551	0.0000	3,420.9889
2020	6.9950	77.3223	51.2751	0.1187	4.9358	2.7005	7.6363	0.8813	2.5066	3.3879	0.0000	11,608.2953	11,608.2953	2.1803	0.0000	11,654.0819
<b>Total</b>	<b>108.3037</b>	<b>217.3104</b>	<b>171.4944</b>	<b>0.2983</b>	<b>24.8862</b>	<b>9.9766</b>	<b>34.8628</b>	<b>11.2900</b>	<b>9.2368</b>	<b>20.5268</b>	<b>0.0000</b>	<b>29,277.7675</b>	<b>29,277.7675</b>	<b>6.5633</b>	<b>0.0000</b>	<b>29,415.5959</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					
2016	5.5704	61.6851	42.8367	0.0606	6.8305	2.9397	9.7702	3.7156	2.7045	6.4201	0.0000	6,176.0377	6,176.0377	1.5724	0.0000	6,209.0582
2017	2.7380	22.9841	22.1422	0.0317	0.4775	1.4245	1.9020	0.1293	1.3277	1.4569	0.0000	3,084.5530	3,084.5530	0.6487	0.0000	3,098.1754
2018	91.1431	34.5605	34.1334	0.0521	0.6296	2.0068	2.6363	0.1696	1.8630	2.0326	0.0000	5,007.9489	5,007.9489	1.2068	0.0000	5,033.2915
2019	1.8572	20.7585	21.1070	0.0353	0.4996	0.9051	1.4047	0.1215	0.8350	0.9565	0.0000	3,400.9327	3,400.9327	0.9551	0.0000	3,420.9889
2020	6.9950	77.3223	51.2751	0.1187	2.5387	2.7005	5.2392	0.5184	2.5066	3.0250	0.0000	11,608.2953	11,608.2953	2.1803	0.0000	11,654.0819
<b>Total</b>	<b>108.3037</b>	<b>217.3104</b>	<b>171.4944</b>	<b>0.2983</b>	<b>10.9758</b>	<b>9.9766</b>	<b>20.9524</b>	<b>4.6544</b>	<b>9.2368</b>	<b>13.8912</b>	<b>0.0000</b>	<b>29,277.7675</b>	<b>29,277.7675</b>	<b>6.5633</b>	<b>0.0000</b>	<b>29,415.5959</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	55.90	0.00	39.90	58.77	0.00	32.33	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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Energy	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434
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>3.5876</b>	<b>0.5172</b>	<b>0.4487</b>	<b>3.1000e-003</b>	<b>0.0000</b>	<b>0.0394</b>	<b>0.0394</b>	<b>0.0000</b>	<b>0.0394</b>	<b>0.0394</b>		<b>620.4980</b>	<b>620.4980</b>	<b>0.0120</b>	<b>0.0114</b>	<b>624.2758</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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Energy	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
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>3.5767</b>	<b>0.4189</b>	<b>0.3661</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>0.0319</b>	<b>0.0319</b>	<b>0.0000</b>	<b>0.0319</b>	<b>0.0319</b>		<b>502.5415</b>	<b>502.5415</b>	<b>9.7100e-003</b>	<b>9.2100e-003</b>	<b>505.6014</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	0.30	19.01	18.40	19.03	0.00	18.98	18.98	0.00	18.98	18.98	0.00	19.01	19.01	18.88	19.07	19.01

### 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 1	Demolition	2/1/2016	2/19/2016	5	15	Housestaff Demolition
2	Site Preparation	Site Preparation	3/14/2016	3/14/2016	5	1	North Addition Site Prep
3	Grading	Grading	3/15/2016	3/28/2016	5	10	North Addition Grading
4	Building Construction	Building Construction	6/1/2016	6/1/2018	5	523	North Addition Construction
5	Architectural Coating	Architectural Coating	3/15/2018	4/15/2018	5	22	North Addition Arch. Coating
6	Paving	Paving	6/1/2018	6/4/2018	5	2	North Addition Paving (minor)
7	Demolition 2.1	Demolition	12/1/2019	4/29/2020	5	108	North/South Wing abatement/prep
8	Demolition 2.2	Demolition	5/1/2020	7/20/2020	5	57	North/South Wing Demolition

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition 1	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition 1	Crawler Tractors	1	4.00	208	0.43
Demolition 1	Excavators	3	8.00	162	0.38
Demolition 1	Rubber Tired Dozers	2	8.00	255	0.40
Demolition 1	Tractors/Loaders/Backhoes	2	6.00	220	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Aerial Lifts	2	6.00	62	0.31
Building Construction	Aerial Lifts	2	4.00	62	0.31
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Building Construction	Generator Sets	1	4.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	4.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition 2.1	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.1	Excavators	3	3.00	162	0.38
Demolition 2.1	Rubber Tired Dozers	2	2.00	255	0.40



Demolition 2.1	Skid Steer Loaders	8	6.00	73	0.37
Demolition 2.1	Tractors/Loaders/Backhoes	1	6.00	235	0.37
Demolition 2.2	Concrete/Industrial Saws	1	1.00	81	0.73
Demolition 2.2	Cranes	1	1.00	235	0.29
Demolition 2.2	Crawler Tractors	1	6.00	758	0.38
Demolition 2.2	Crawler Tractors	1	6.00	513	0.40
Demolition 2.2	Crushing/Proc. Equipment	1	4.00	580	0.78
Demolition 2.2	Excavators	3	4.00	162	0.38
Demolition 2.2	Other Material Handling Equipment	1	6.00	300	0.40
Demolition 2.2	Rubber Tired Dozers	2	6.00	255	0.40
Demolition 2.2	Tractors/Loaders/Backhoes	1	3.00	235	0.37
Demolition 2.2	Tractors/Loaders/Backhoes	2	4.00	18	0.37

**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 1	9	23.00	0.00	91.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	45.00	23.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.1	15	38.00	0.00	200.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition 2.2	24	60.00	0.00	2,207.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

**3.2 Demolition 1 - 2016**

**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					1.3684	0.0000	1.3684	0.2072	0.0000	0.2072			0.0000			0.0000
Off-Road	5.3106	59.9572	39.3535	0.0542		2.7880	2.7880		2.5927	2.5927		5,575.6640	5,575.6640	1.5604		5,608.4326
<b>Total</b>	<b>5.3106</b>	<b>59.9572</b>	<b>39.3535</b>	<b>0.0542</b>	<b>1.3684</b>	<b>2.7880</b>	<b>4.1563</b>	<b>0.2072</b>	<b>2.5927</b>	<b>2.7999</b>		<b>5,575.6640</b>	<b>5,575.6640</b>	<b>1.5604</b>		<b>5,608.4326</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	0.1793	1.6250	2.4813	4.3800e-003	0.1052	0.0233	0.1284	0.0288	0.0214	0.0502		438.9389	438.9389	3.1200e-003		439.0044
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	0.0804	0.1029	1.0019	1.9600e-003	0.1750	1.2900e-003	0.1763	0.0464	1.1800e-003	0.0476		161.4347	161.4347	8.8800e-003		161.6213
<b>Total</b>	<b>0.2597</b>	<b>1.7279</b>	<b>3.4832</b>	<b>6.3400e-003</b>	<b>0.2801</b>	<b>0.0246</b>	<b>0.3047</b>	<b>0.0752</b>	<b>0.0226</b>	<b>0.0977</b>		<b>600.3737</b>	<b>600.3737</b>	<b>0.0120</b>		<b>600.6256</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					0.5070	0.0000	0.5070	0.0768	0.0000	0.0768			0.0000			0.0000
Off-Road	5.3106	59.9572	39.3535	0.0542		2.7880	2.7880		2.5927	2.5927	0.0000	5,575.6640	5,575.6640	1.5604		5,608.4326
<b>Total</b>	<b>5.3106</b>	<b>59.9572</b>	<b>39.3535</b>	<b>0.0542</b>	<b>0.5070</b>	<b>2.7880</b>	<b>3.2950</b>	<b>0.0768</b>	<b>2.5927</b>	<b>2.6695</b>	<b>0.0000</b>	<b>5,575.6640</b>	<b>5,575.6640</b>	<b>1.5604</b>		<b>5,608.4326</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	0.1793	1.6250	2.4813	4.3800e-003	0.1052	0.0233	0.1284	0.0288	0.0214	0.0502		438.9389	438.9389	3.1200e-003		439.0044
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	0.0804	0.1029	1.0019	1.9600e-003	0.1750	1.2900e-003	0.1763	0.0464	1.1800e-003	0.0476		161.4347	161.4347	8.8800e-003		161.6213
<b>Total</b>	<b>0.2597</b>	<b>1.7279</b>	<b>3.4832</b>	<b>6.3400e-003</b>	<b>0.2801</b>	<b>0.0246</b>	<b>0.3047</b>	<b>0.0752</b>	<b>0.0226</b>	<b>0.0977</b>		<b>600.3737</b>	<b>600.3737</b>	<b>0.0120</b>		<b>600.6256</b>

**3.3 Site Preparation - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>		<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862
<b>Total</b>	<b>0.0629</b>	<b>0.0805</b>	<b>0.7841</b>	<b>1.5400e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>126.3402</b>	<b>126.3402</b>	<b>6.9500e-003</b>		<b>126.4862</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>6.6936</b>	<b>2.9387</b>	<b>9.6322</b>	<b>3.6793</b>	<b>2.7036</b>	<b>6.3829</b>	<b>0.0000</b>	<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862
<b>Total</b>	<b>0.0629</b>	<b>0.0805</b>	<b>0.7841</b>	<b>1.5400e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>126.3402</b>	<b>126.3402</b>	<b>6.9500e-003</b>		<b>126.4862</b>

**3.4 Grading - 2016**

**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					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.3402</b>	<b>2.1984</b>	<b>8.5386</b>	<b>3.3446</b>	<b>2.0225</b>	<b>5.3671</b>		<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052
<b>Total</b>	<b>0.0524</b>	<b>0.0671</b>	<b>0.6534</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>105.2835</b>	<b>105.2835</b>	<b>5.7900e-003</b>		<b>105.4052</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					2.3491	0.0000	2.3491	1.2392	0.0000	1.2392			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>2.3491</b>	<b>2.1984</b>	<b>4.5475</b>	<b>1.2392</b>	<b>2.0225</b>	<b>3.2617</b>	<b>0.0000</b>	<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052
<b>Total</b>	<b>0.0524</b>	<b>0.0671</b>	<b>0.6534</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>105.2835</b>	<b>105.2835</b>	<b>5.7900e-003</b>		<b>105.4052</b>

**3.5 Building Construction - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5056	22.8306	16.2664	0.0231		1.5542	1.5542		1.4491	1.4491		2,344.1431	2,344.1431	0.6355		2,357.4889
<b>Total</b>	<b>2.5056</b>	<b>22.8306</b>	<b>16.2664</b>	<b>0.0231</b>		<b>1.5542</b>	<b>1.5542</b>		<b>1.4491</b>	<b>1.4491</b>		<b>2,344.1431</b>	<b>2,344.1431</b>	<b>0.6355</b>		<b>2,357.4889</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	0.3658	1.9806	4.7316	4.7900e-003	0.1351	0.0307	0.1658	0.0385	0.0282	0.0667		476.0180	476.0180	3.8900e-003		476.0997
Worker	0.1573	0.2013	1.9602	3.8400e-003	0.3423	2.5200e-003	0.3448	0.0908	2.3100e-003	0.0931		315.8506	315.8506	0.0174		316.2155
<b>Total</b>	<b>0.5231</b>	<b>2.1819</b>	<b>6.6918</b>	<b>8.6300e-003</b>	<b>0.4774</b>	<b>0.0333</b>	<b>0.5107</b>	<b>0.1293</b>	<b>0.0305</b>	<b>0.1598</b>		<b>791.8685</b>	<b>791.8685</b>	<b>0.0213</b>		<b>792.3152</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5056	22.8306	16.2664	0.0231		1.5542	1.5542		1.4491	1.4491	0.0000	2,344.1431	2,344.1431	0.6355		2,357.4889
<b>Total</b>	<b>2.5056</b>	<b>22.8306</b>	<b>16.2664</b>	<b>0.0231</b>		<b>1.5542</b>	<b>1.5542</b>		<b>1.4491</b>	<b>1.4491</b>	<b>0.0000</b>	<b>2,344.1431</b>	<b>2,344.1431</b>	<b>0.6355</b>		<b>2,357.4889</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	0.3658	1.9806	4.7316	4.7900e-003	0.1351	0.0307	0.1658	0.0385	0.0282	0.0667		476.0180	476.0180	3.8900e-003			476.0997
Worker	0.1573	0.2013	1.9602	3.8400e-003	0.3423	2.5200e-003	0.3448	0.0908	2.3100e-003	0.0931		315.8506	315.8506	0.0174			316.2155
<b>Total</b>	<b>0.5231</b>	<b>2.1819</b>	<b>6.6918</b>	<b>8.6300e-003</b>	<b>0.4774</b>	<b>0.0333</b>	<b>0.5107</b>	<b>0.1293</b>	<b>0.0305</b>	<b>0.1598</b>		<b>791.8685</b>	<b>791.8685</b>	<b>0.0213</b>			<b>792.3152</b>

**3.5 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	2.2866	21.0516	16.0141	0.0231		1.3962	1.3962		1.3016	1.3016		2,313.2179	2,313.2179	0.6292			2,326.4311
<b>Total</b>	<b>2.2866</b>	<b>21.0516</b>	<b>16.0141</b>	<b>0.0231</b>		<b>1.3962</b>	<b>1.3962</b>		<b>1.3016</b>	<b>1.3016</b>		<b>2,313.2179</b>	<b>2,313.2179</b>	<b>0.6292</b>			<b>2,326.4311</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	0.3125	1.7527	4.3868	4.7800e-003	0.1351	0.0259	0.1610	0.0385	0.0238	0.0623		467.9910	467.9910	3.6300e-003			468.0673
Worker	0.1389	0.1798	1.7412	3.8400e-003	0.3423	2.4300e-003	0.3448	0.0908	2.2400e-003	0.0930		303.3441	303.3441	0.0159			303.6770
<b>Total</b>	<b>0.4514</b>	<b>1.9325</b>	<b>6.1281</b>	<b>8.6200e-003</b>	<b>0.4774</b>	<b>0.0283</b>	<b>0.5058</b>	<b>0.1293</b>	<b>0.0260</b>	<b>0.1553</b>		<b>771.3351</b>	<b>771.3351</b>	<b>0.0195</b>			<b>771.7443</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.2866	21.0516	16.0141	0.0231		1.3962	1.3962		1.3016	1.3016	0.0000	2,313.2179	2,313.2179	0.6292			2,326.4311
<b>Total</b>	<b>2.2866</b>	<b>21.0516</b>	<b>16.0141</b>	<b>0.0231</b>		<b>1.3962</b>	<b>1.3962</b>		<b>1.3016</b>	<b>1.3016</b>	<b>0.0000</b>	<b>2,313.2179</b>	<b>2,313.2179</b>	<b>0.6292</b>			<b>2,326.4311</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	0.3125	1.7527	4.3868	4.7800e-003	0.1351	0.0259	0.1610	0.0385	0.0238	0.0623		467.9910	467.9910	3.6300e-003		468.0673
Worker	0.1389	0.1798	1.7412	3.8400e-003	0.3423	2.4300e-003	0.3448	0.0908	2.2400e-003	0.0930		303.3441	303.3441	0.0159		303.6770
<b>Total</b>	<b>0.4514</b>	<b>1.9325</b>	<b>6.1281</b>	<b>8.6200e-003</b>	<b>0.4774</b>	<b>0.0283</b>	<b>0.5058</b>	<b>0.1293</b>	<b>0.0260</b>	<b>0.1553</b>		<b>771.3351</b>	<b>771.3351</b>	<b>0.0195</b>		<b>771.7443</b>

**3.5 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	1.9554	18.4287	15.5797	0.0231		1.1523	1.1523		1.0751	1.0751		2,281.9863	2,281.9863	0.6235		2,295.0800
<b>Total</b>	<b>1.9554</b>	<b>18.4287</b>	<b>15.5797</b>	<b>0.0231</b>		<b>1.1523</b>	<b>1.1523</b>		<b>1.0751</b>	<b>1.0751</b>		<b>2,281.9863</b>	<b>2,281.9863</b>	<b>0.6235</b>		<b>2,295.0800</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	0.2546	1.5789	4.0404	4.7600e-003	0.1351	0.0238	0.1589	0.0385	0.0219	0.0603		459.3370	459.3370	3.5500e-003		459.4115
Worker	0.1234	0.1618	1.5579	3.8400e-003	0.3423	2.3800e-003	0.3447	0.0908	2.2000e-003	0.0930		291.8706	291.8706	0.0146		292.1769
<b>Total</b>	<b>0.3780</b>	<b>1.7407</b>	<b>5.5983</b>	<b>8.6000e-003</b>	<b>0.4774</b>	<b>0.0262</b>	<b>0.5036</b>	<b>0.1293</b>	<b>0.0241</b>	<b>0.1533</b>		<b>751.2075</b>	<b>751.2075</b>	<b>0.0181</b>		<b>751.5884</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	1.9554	18.4287	15.5797	0.0231		1.1523	1.1523		1.0751	1.0751	0.0000	2,281.9863	2,281.9863	0.6235		2,295.0800
<b>Total</b>	<b>1.9554</b>	<b>18.4287</b>	<b>15.5797</b>	<b>0.0231</b>		<b>1.1523</b>	<b>1.1523</b>		<b>1.0751</b>	<b>1.0751</b>	<b>0.0000</b>	<b>2,281.9863</b>	<b>2,281.9863</b>	<b>0.6235</b>		<b>2,295.0800</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	0.2546	1.5789	4.0404	4.7600e-003	0.1351	0.0238	0.1589	0.0385	0.0219	0.0603		459.3370	459.3370	3.5500e-003		459.4115
Worker	0.1234	0.1618	1.5579	3.8400e-003	0.3423	2.3800e-003	0.3447	0.0908	2.2000e-003	0.0930		291.8706	291.8706	0.0146		292.1769
<b>Total</b>	<b>0.3780</b>	<b>1.7407</b>	<b>5.5983</b>	<b>8.6000e-003</b>	<b>0.4774</b>	<b>0.0262</b>	<b>0.5036</b>	<b>0.1293</b>	<b>0.0241</b>	<b>0.1533</b>		<b>751.2075</b>	<b>751.2075</b>	<b>0.0181</b>		<b>751.5884</b>

**3.6 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	88.4864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>88.7850</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**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	0.0247	0.0324	0.3116	7.7000e-004	0.0685	4.8000e-004	0.0689	0.0182	4.4000e-004	0.0186		58.3741	58.3741	2.9200e-003		58.4354
<b>Total</b>	<b>0.0247</b>	<b>0.0324</b>	<b>0.3116</b>	<b>7.7000e-004</b>	<b>0.0685</b>	<b>4.8000e-004</b>	<b>0.0689</b>	<b>0.0182</b>	<b>4.4000e-004</b>	<b>0.0186</b>		<b>58.3741</b>	<b>58.3741</b>	<b>2.9200e-003</b>		<b>58.4354</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	88.4864					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>88.7850</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>

**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	0.0247	0.0324	0.3116	7.7000e-004	0.0685	4.8000e-004	0.0689	0.0182	4.4000e-004	0.0186		58.3741	58.3741	2.9200e-003		58.4354
<b>Total</b>	<b>0.0247</b>	<b>0.0324</b>	<b>0.3116</b>	<b>7.7000e-004</b>	<b>0.0685</b>	<b>4.8000e-004</b>	<b>0.0689</b>	<b>0.0182</b>	<b>4.4000e-004</b>	<b>0.0186</b>		<b>58.3741</b>	<b>58.3741</b>	<b>2.9200e-003</b>		<b>58.4354</b>

**3.7 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4060</b>	<b>14.3192</b>	<b>12.2631</b>	<b>0.0187</b>		<b>0.8272</b>	<b>0.8272</b>		<b>0.7628</b>	<b>0.7628</b>		<b>1,845.0348</b>	<b>1,845.0348</b>	<b>0.5587</b>		<b>1,856.7667</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	0.0549	0.0719	0.6924	1.7100e-003	0.1521	1.0600e-003	0.1532	0.0404	9.8000e-004	0.0413		129.7203	129.7203	6.4800e-003		129.8564
<b>Total</b>	<b>0.0549</b>	<b>0.0719</b>	<b>0.6924</b>	<b>1.7100e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.8000e-004</b>	<b>0.0413</b>		<b>129.7203</b>	<b>129.7203</b>	<b>6.4800e-003</b>		<b>129.8564</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	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4060</b>	<b>14.3192</b>	<b>12.2631</b>	<b>0.0187</b>		<b>0.8272</b>	<b>0.8272</b>		<b>0.7628</b>	<b>0.7628</b>	<b>0.0000</b>	<b>1,845.0348</b>	<b>1,845.0348</b>	<b>0.5587</b>		<b>1,856.7667</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	0.0549	0.0719	0.6924	1.7100e-003	0.1521	1.0600e-003	0.1532	0.0404	9.8000e-004	0.0413		129.7203	129.7203	6.4800e-003		129.8564
<b>Total</b>	<b>0.0549</b>	<b>0.0719</b>	<b>0.6924</b>	<b>1.7100e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.8000e-004</b>	<b>0.0413</b>		<b>129.7203</b>	<b>129.7203</b>	<b>6.4800e-003</b>		<b>129.8564</b>

**3.8 Demolition 2.1 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2233	0.0000	0.2233	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	1.7247	20.2784	19.2642	0.0307		0.8973	0.8973		0.8278	0.8278		3,037.2309	3,037.2309	0.9427		3,057.0281
<b>Total</b>	<b>1.7247</b>	<b>20.2784</b>	<b>19.2642</b>	<b>0.0307</b>	<b>0.2233</b>	<b>0.8973</b>	<b>1.1206</b>	<b>0.0338</b>	<b>0.8278</b>	<b>0.8617</b>		<b>3,037.2309</b>	<b>3,037.2309</b>	<b>0.9427</b>		<b>3,057.0281</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	0.0372	0.3552	0.6357	1.3300e-003	0.1278	5.7900e-003	0.1336	0.0323	5.3300e-003	0.0376		127.2137	127.2137	8.7000e-004		127.2321
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	0.0954	0.1249	1.2072	3.2200e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		236.4881	236.4881	0.0115		236.7287
<b>Total</b>	<b>0.1325</b>	<b>0.4801</b>	<b>1.8428</b>	<b>4.5500e-003</b>	<b>0.4169</b>	<b>7.7800e-003</b>	<b>0.4247</b>	<b>0.1090</b>	<b>7.1700e-003</b>	<b>0.1161</b>		<b>363.7018</b>	<b>363.7018</b>	<b>0.0123</b>		<b>363.9608</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					0.0827	0.0000	0.0827	0.0125	0.0000	0.0125			0.0000			0.0000
Off-Road	1.7247	20.2784	19.2642	0.0307		0.8973	0.8973		0.8278	0.8278	0.0000	3,037.2309	3,037.2309	0.9427		3,057.0281
<b>Total</b>	<b>1.7247</b>	<b>20.2784</b>	<b>19.2642</b>	<b>0.0307</b>	<b>0.0827</b>	<b>0.8973</b>	<b>0.9801</b>	<b>0.0125</b>	<b>0.8278</b>	<b>0.8404</b>	<b>0.0000</b>	<b>3,037.2309</b>	<b>3,037.2309</b>	<b>0.9427</b>		<b>3,057.0281</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	0.0372	0.3552	0.6357	1.3300e-003	0.1278	5.7900e-003	0.1336	0.0323	5.3300e-003	0.0376		127.2137	127.2137	8.7000e-004		127.2321
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	0.0954	0.1249	1.2072	3.2200e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		236.4881	236.4881	0.0115		236.7287
<b>Total</b>	<b>0.1325</b>	<b>0.4801</b>	<b>1.8428</b>	<b>4.5500e-003</b>	<b>0.4169</b>	<b>7.7800e-003</b>	<b>0.4247</b>	<b>0.1090</b>	<b>7.1700e-003</b>	<b>0.1161</b>		<b>363.7018</b>	<b>363.7018</b>	<b>0.0123</b>		<b>363.9608</b>

**3.8 Demolition 2.1 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2233	0.0000	0.2233	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	1.6135	18.5770	18.9404	0.0307		0.8058	0.8058		0.7433	0.7433		2,972.4701	2,972.4701	0.9421		2,992.2540
<b>Total</b>	<b>1.6135</b>	<b>18.5770</b>	<b>18.9404</b>	<b>0.0307</b>	<b>0.2233</b>	<b>0.8058</b>	<b>1.0291</b>	<b>0.0338</b>	<b>0.7433</b>	<b>0.7771</b>		<b>2,972.4701</b>	<b>2,972.4701</b>	<b>0.9421</b>		<b>2,992.2540</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	0.0320	0.3116	0.6013	1.3300e-003	0.0384	5.6700e-003	0.0440	0.0103	5.2100e-003	0.0155		124.2965	124.2965	8.7000e-004		124.3147
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	0.0890	0.1157	1.1191	3.2200e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		227.1232	227.1232	0.0108		227.3507
<b>Total</b>	<b>0.1209</b>	<b>0.4272</b>	<b>1.7205</b>	<b>4.5500e-003</b>	<b>0.3275</b>	<b>7.6600e-003</b>	<b>0.3351</b>	<b>0.0870</b>	<b>7.0500e-003</b>	<b>0.0941</b>		<b>351.4197</b>	<b>351.4197</b>	<b>0.0117</b>		<b>351.6654</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					0.0827	0.0000	0.0827	0.0125	0.0000	0.0125			0.0000			0.0000
Off-Road	1.6135	18.5770	18.9404	0.0307		0.8058	0.8058		0.7433	0.7433	0.0000	2,972.4701	2,972.4701	0.9421		2,992.2540
<b>Total</b>	<b>1.6135</b>	<b>18.5770</b>	<b>18.9404</b>	<b>0.0307</b>	<b>0.0827</b>	<b>0.8058</b>	<b>0.8886</b>	<b>0.0125</b>	<b>0.7433</b>	<b>0.7559</b>	<b>0.0000</b>	<b>2,972.4701</b>	<b>2,972.4701</b>	<b>0.9421</b>		<b>2,992.2540</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	0.0320	0.3116	0.6013	1.3300e-003	0.0384	5.6700e-003	0.0440	0.0103	5.2100e-003	0.0155		124.2965	124.2965	8.7000e-004		124.3147
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	0.0890	0.1157	1.1191	3.2200e-003	0.2891	1.9900e-003	0.2911	0.0767	1.8400e-003	0.0785		227.1232	227.1232	0.0108		227.3507
<b>Total</b>	<b>0.1209</b>	<b>0.4272</b>	<b>1.7205</b>	<b>4.5500e-003</b>	<b>0.3275</b>	<b>7.6600e-003</b>	<b>0.3351</b>	<b>0.0870</b>	<b>7.0500e-003</b>	<b>0.0941</b>		<b>351.4197</b>	<b>351.4197</b>	<b>0.0117</b>		<b>351.6654</b>

**3.9 Demolition 2.2 - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8080	0.0000	3.8080	0.5766	0.0000	0.5766			0.0000			0.0000
Off-Road	6.1862	70.6254	36.9353	0.0859		2.5789	2.5789		2.3947	2.3947		8,650.8368	8,650.8368	2.1451		8,695.8831
<b>Total</b>	<b>6.1862</b>	<b>70.6254</b>	<b>36.9353</b>	<b>0.0859</b>	<b>3.8080</b>	<b>2.5789</b>	<b>6.3869</b>	<b>0.5766</b>	<b>2.3947</b>	<b>2.9713</b>		<b>8,650.8368</b>	<b>8,650.8368</b>	<b>2.1451</b>		<b>8,695.8831</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	0.6684	6.5143	12.5727	0.0278	0.6714	0.1185	0.7899	0.1837	0.1090	0.2927		2,598.8429	2,598.8429	0.0182		2,599.2241
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	0.1405	0.1826	1.7670	5.0900e-003	0.4564	3.1400e-003	0.4596	0.1211	2.9100e-003	0.1240		358.6156	358.6156	0.0171		358.9748
<b>Total</b>	<b>0.8089</b>	<b>6.6969</b>	<b>14.3397</b>	<b>0.0328</b>	<b>1.1279</b>	<b>0.1216</b>	<b>1.2494</b>	<b>0.3048</b>	<b>0.1119</b>	<b>0.4166</b>		<b>2,957.4585</b>	<b>2,957.4585</b>	<b>0.0353</b>		<b>2,958.1988</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					1.4109	0.0000	1.4109	0.2136	0.0000	0.2136			0.0000			0.0000
Off-Road	6.1862	70.6254	36.9353	0.0859		2.5789	2.5789		2.3947	2.3947	0.0000	8,650.8368	8,650.8368	2.1451		8,695.8831
<b>Total</b>	<b>6.1862</b>	<b>70.6254</b>	<b>36.9353</b>	<b>0.0859</b>	<b>1.4109</b>	<b>2.5789</b>	<b>3.9898</b>	<b>0.2136</b>	<b>2.3947</b>	<b>2.6083</b>	<b>0.0000</b>	<b>8,650.8368</b>	<b>8,650.8368</b>	<b>2.1451</b>		<b>8,695.8831</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	0.6684	6.5143	12.5727	0.0278	0.6714	0.1185	0.7899	0.1837	0.1090	0.2927		2,598.8429	2,598.8429	0.0182		2,599.2241
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	0.1405	0.1826	1.7670	5.0900e-003	0.4564	3.1400e-003	0.4596	0.1211	2.9100e-003	0.1240		358.6156	358.6156	0.0171		358.9748
<b>Total</b>	<b>0.8089</b>	<b>6.6969</b>	<b>14.3397</b>	<b>0.0328</b>	<b>1.1279</b>	<b>0.1216</b>	<b>1.2494</b>	<b>0.3048</b>	<b>0.1119</b>	<b>0.4166</b>		<b>2,957.4585</b>	<b>2,957.4585</b>	<b>0.0353</b>		<b>2,958.1988</b>

**4.0 Operational Detail - Mobile**

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**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
General Office Building	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
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504022	0.068097	0.178374	0.146657	0.044463	0.006402	0.021337	0.017008	0.002323	0.002278	0.006305	0.000550	0.002185

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
NaturalGas Unmitigated	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434

### 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					
General Office Building	5273.97	0.0569	0.5171	0.4343	3.1000e-003		0.0393	0.0393		0.0393	0.0393		620.4674	620.4674	0.0119	0.0114	624.2434
<b>Total</b>		<b>0.0569</b>	<b>0.5171</b>	<b>0.4343</b>	<b>3.1000e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0393</b>	<b>0.0393</b>		<b>620.4674</b>	<b>620.4674</b>	<b>0.0119</b>	<b>0.0114</b>	<b>624.2434</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					
General Office Building	4.27134	0.0461	0.4188	0.3518	2.5100e-003		0.0318	0.0318		0.0318	0.0318		502.5109	502.5109	9.6300e-003	9.2100e-003	505.5691
<b>Total</b>		<b>0.0461</b>	<b>0.4188</b>	<b>0.3518</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>		<b>502.5109</b>	<b>502.5109</b>	<b>9.6300e-003</b>	<b>9.2100e-003</b>	<b>505.5691</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	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
Unmitigated	3.5307	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324

### 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	0.5333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
<b>Total</b>	<b>3.5307</b>	<b>1.3000e-004</b>	<b>0.0144</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0306</b>	<b>0.0306</b>	<b>8.0000e-005</b>		<b>0.0324</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	0.5333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0324
<b>Total</b>	<b>3.5307</b>	<b>1.3000e-004</b>	<b>0.0144</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0306</b>	<b>0.0306</b>	<b>8.0000e-005</b>		<b>0.0324</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**UC Davis Sacramento North/South Wing Existing Operational  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	235.00	1000sqft	5.39	235,000.00	0
General Office Building	20.00	1000sqft	0.46	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Natural gas source is PG&E.

Land Use -

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2019

**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					
2016	0.7044	4.5330	3.8783	5.4400e-003	0.2475	0.2735	0.5211	0.1082	0.2560	0.3642	0.0000	481.9524	481.9524	0.0913	0.0000	483.8700
2017	1.8473	0.5095	0.4390	6.9000e-004	0.0103	0.0305	0.0408	2.7800e-003	0.0286	0.0313	0.0000	60.2555	60.2555	0.0126	0.0000	60.5204
<b>Total</b>	<b>2.5517</b>	<b>5.0424</b>	<b>4.3173</b>	<b>6.1300e-003</b>	<b>0.2578</b>	<b>0.3041</b>	<b>0.5619</b>	<b>0.1110</b>	<b>0.2845</b>	<b>0.3955</b>	<b>0.0000</b>	<b>542.2079</b>	<b>542.2079</b>	<b>0.1039</b>	<b>0.0000</b>	<b>544.3903</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					
2016	0.7038	4.5280	3.8750	5.4400e-003	0.2475	0.2732	0.5207	0.1082	0.2557	0.3639	0.0000	481.5490	481.5490	0.0912	0.0000	483.4644
2017	1.8473	0.5089	0.4386	6.9000e-004	0.0103	0.0305	0.0408	2.7800e-003	0.0285	0.0313	0.0000	60.2008	60.2008	0.0126	0.0000	60.4654
<b>Total</b>	<b>2.5511</b>	<b>5.0369</b>	<b>4.3136</b>	<b>6.1300e-003</b>	<b>0.2578</b>	<b>0.3037</b>	<b>0.5615</b>	<b>0.1110</b>	<b>0.2842</b>	<b>0.3952</b>	<b>0.0000</b>	<b>541.7498</b>	<b>541.7498</b>	<b>0.1038</b>	<b>0.0000</b>	<b>543.9298</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>0.0239</b>	<b>0.1087</b>	<b>0.0857</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1118</b>	<b>0.0641</b>	<b>0.0000</b>	<b>0.1160</b>	<b>0.0834</b>	<b>0.0000</b>	<b>0.0845</b>	<b>0.0845</b>	<b>0.1059</b>	<b>0.0000</b>	<b>0.0846</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	1.1735	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-003
Energy	0.0874	0.7946	0.6675	4.7700e-003		0.0604	0.0604		0.0604	0.0604	0.0000	2,396.0694	2,396.0694	0.0858	0.0302	2,407.2279
Mobile	5.1484	4.0519	19.1317	0.0465	3.2533	0.0577	3.3109	0.8716	0.0532	0.9248	0.0000	3,326.5492	3,326.5492	0.1300	0.0000	3,329.2792
Waste						0.0000	0.0000		0.0000	0.0000	518.9667	0.0000	518.9667	30.6701	0.0000	1,163.0378
Water						0.0000	0.0000		0.0000	0.0000	11.6905	55.8323	67.5228	0.0428	0.0260	76.4639
<b>Total</b>	<b>6.4093</b>	<b>4.8466</b>	<b>19.8025</b>	<b>0.0512</b>	<b>3.2533</b>	<b>0.1181</b>	<b>3.3713</b>	<b>0.8716</b>	<b>0.1136</b>	<b>0.9852</b>	<b>530.6572</b>	<b>5,778.4572</b>	<b>6,309.1145</b>	<b>30.9286</b>	<b>0.0561</b>	<b>6,976.0155</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	1.1735	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-003
Energy	0.0874	0.7946	0.6675	4.7700e-003		0.0604	0.0604		0.0604	0.0604	0.0000	2,396.0694	2,396.0694	0.0858	0.0302	2,407.2279
Mobile	5.1484	4.0519	19.1317	0.0465	3.2533	0.0577	3.3109	0.8716	0.0532	0.9248	0.0000	3,326.5492	3,326.5492	0.1300	0.0000	3,329.2792
Waste						0.0000	0.0000		0.0000	0.0000	518.9667	0.0000	518.9667	30.6701	0.0000	1,163.0378
Water						0.0000	0.0000		0.0000	0.0000	11.6905	55.8323	67.5228	0.0429	0.0260	76.4770
<b>Total</b>	<b>6.4093</b>	<b>4.8466</b>	<b>19.8025</b>	<b>0.0512</b>	<b>3.2533</b>	<b>0.1181</b>	<b>3.3713</b>	<b>0.8716</b>	<b>0.1136</b>	<b>0.9852</b>	<b>530.6572</b>	<b>5,778.4572</b>	<b>6,309.1145</b>	<b>30.9288</b>	<b>0.0562</b>	<b>6,976.0285</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0005	-0.0534	-0.0002

### 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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/11/2016	5	10	
3	Grading	Grading	2/12/2016	3/10/2016	5	20	
4	Building Construction	Building Construction	3/11/2016	1/26/2017	5	230	
5	Paving	Paving	1/27/2017	2/23/2017	5	20	
6	Architectural Coating	Architectural Coating	2/24/2017	3/23/2017	5	20	

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42

Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2016**

**Unmitigated Construction On-Site**

**Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092
<b>Total</b>	<b>0.0429</b>	<b>0.4566</b>	<b>0.3503</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>37.0974</b>	<b>37.0974</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.3092</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	2.1200e-003	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
<b>Total</b>	<b>2.1200e-003</b>	<b>6.0000e-004</b>	<b>6.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9832</b>	<b>0.9832</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9843</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	0.0428	0.4560	0.3499	4.0000e-004		0.0229	0.0229		0.0213	0.0213	0.0000	37.0532	37.0532	0.0101	0.0000	37.2648
<b>Total</b>	<b>0.0428</b>	<b>0.4560</b>	<b>0.3499</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0213</b>	<b>0.0213</b>	<b>0.0000</b>	<b>37.0532</b>	<b>37.0532</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.2648</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	2.1200e-003	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
<b>Total</b>	<b>2.1200e-003</b>	<b>6.0000e-004</b>	<b>6.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9832</b>	<b>0.9832</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9843</b>

### 3.3 Site Preparation - 2016

#### Unmitigated Construction On-Site

Acres of Grading: 10

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2732	0.2055	2.0000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	18.4386	18.4386	5.5600e-003	0.0000	18.5554
<b>Total</b>	<b>0.0254</b>	<b>0.2732</b>	<b>0.2055</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0147</b>	<b>0.1050</b>	<b>0.0497</b>	<b>0.0135</b>	<b>0.0632</b>	<b>0.0000</b>	<b>18.4386</b>	<b>18.4386</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>18.5554</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	1.2700e-003	3.6000e-004	3.7700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5899	0.5899	3.0000e-005	0.0000	0.5906
<b>Total</b>	<b>1.2700e-003</b>	<b>3.6000e-004</b>	<b>3.7700e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5899</b>	<b>0.5899</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5906</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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2728	0.2053	2.0000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	18.4166	18.4166	5.5600e-003	0.0000	18.5333
<b>Total</b>	<b>0.0254</b>	<b>0.2728</b>	<b>0.2053</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0147</b>	<b>0.1050</b>	<b>0.0497</b>	<b>0.0135</b>	<b>0.0632</b>	<b>0.0000</b>	<b>18.4166</b>	<b>18.4166</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>18.5333</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	1.2700e-003	3.6000e-004	3.7700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5899	0.5899	3.0000e-005	0.0000	0.5906
<b>Total</b>	<b>1.2700e-003</b>	<b>3.6000e-004</b>	<b>3.7700e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5899</b>	<b>0.5899</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5906</b>



### 3.4 Grading - 2016

#### 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0367	0.3845	0.2608	3.0000e-004		0.0220	0.0220		0.0202	0.0202	0.0000	28.0664	28.0664	8.4700e-003	0.0000	28.2442
<b>Total</b>	<b>0.0367</b>	<b>0.3845</b>	<b>0.2608</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0220</b>	<b>0.0875</b>	<b>0.0337</b>	<b>0.0202</b>	<b>0.0539</b>	<b>0.0000</b>	<b>28.0664</b>	<b>28.0664</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>28.2442</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	2.1200e-003	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
<b>Total</b>	<b>2.1200e-003</b>	<b>6.0000e-004</b>	<b>6.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9832</b>	<b>0.9832</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9843</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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0366	0.3840	0.2605	3.0000e-004		0.0220	0.0220		0.0202	0.0202	0.0000	28.0330	28.0330	8.4600e-003	0.0000	28.2106
<b>Total</b>	<b>0.0366</b>	<b>0.3840</b>	<b>0.2605</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0220</b>	<b>0.0875</b>	<b>0.0337</b>	<b>0.0202</b>	<b>0.0539</b>	<b>0.0000</b>	<b>28.0330</b>	<b>28.0330</b>	<b>8.4600e-003</b>	<b>0.0000</b>	<b>28.2106</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	2.1200e-003	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
<b>Total</b>	<b>2.1200e-003</b>	<b>6.0000e-004</b>	<b>6.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9832</b>	<b>0.9832</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9843</b>

### 3.5 Building Construction - 2016

#### Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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:	0.3594	3.0074	1.9525	2.8300e-003		0.2076	0.2076		0.1950	0.1950	0.0000	255.4720	255.4720	0.0634	0.0000	256.8026
<b>Total</b>	<b>0.3594</b>	<b>3.0074</b>	<b>1.9525</b>	<b>2.8300e-003</b>		<b>0.2076</b>	<b>0.2076</b>		<b>0.1950</b>	<b>0.1950</b>	<b>0.0000</b>	<b>255.4720</b>	<b>255.4720</b>	<b>0.0634</b>	<b>0.0000</b>	<b>256.8026</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	0.1121	0.3752	0.7301	9.3000e-004	0.0253	5.8700e-003	0.0311	7.2200e-003	5.3900e-003	0.0126	0.0000	83.6183	83.6183	6.7000e-004	0.0000	83.6323
Worker	0.1225	0.0346	0.3628	7.6000e-004	0.0635	4.8000e-004	0.0640	0.0169	4.4000e-004	0.0173	0.0000	56.7035	56.7035	3.0300e-003	0.0000	56.7671
<b>Total</b>	<b>0.2346</b>	<b>0.4098</b>	<b>1.0929</b>	<b>1.6900e-003</b>	<b>0.0888</b>	<b>6.3500e-003</b>	<b>0.0952</b>	<b>0.0241</b>	<b>5.8300e-003</b>	<b>0.0300</b>	<b>0.0000</b>	<b>140.3218</b>	<b>140.3218</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>140.3994</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:	0.3589	3.0038	1.9501	2.8300e-003		0.2073	0.2073		0.1948	0.1948	0.0000	255.1681	255.1681	0.0633	0.0000	256.4971
<b>Total</b>	<b>0.3589</b>	<b>3.0038</b>	<b>1.9501</b>	<b>2.8300e-003</b>		<b>0.2073</b>	<b>0.2073</b>		<b>0.1948</b>	<b>0.1948</b>	<b>0.0000</b>	<b>255.1681</b>	<b>255.1681</b>	<b>0.0633</b>	<b>0.0000</b>	<b>256.4971</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	0.1121	0.3752	0.7301	9.3000e-004	0.0253	5.8700e-003	0.0311	7.2200e-003	5.3900e-003	0.0126	0.0000	83.6183	83.6183	6.7000e-004	0.0000	83.6323
Worker	0.1225	0.0346	0.3628	7.6000e-004	0.0635	4.8000e-004	0.0640	0.0169	4.4000e-004	0.0173	0.0000	56.7035	56.7035	3.0300e-003	0.0000	56.7671
<b>Total</b>	<b>0.2346</b>	<b>0.4098</b>	<b>1.0929</b>	<b>1.6900e-003</b>	<b>0.0888</b>	<b>6.3500e-003</b>	<b>0.0952</b>	<b>0.0241</b>	<b>5.8300e-003</b>	<b>0.0300</b>	<b>0.0000</b>	<b>140.3218</b>	<b>140.3218</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>140.3994</b>

### 3.5 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	0.0295	0.2509	0.1722	2.5000e-004		0.0169	0.0169		0.0159	0.0159	0.0000	22.7505	22.7505	5.6000e-003	0.0000	22.8681
<b>Total</b>	<b>0.0295</b>	<b>0.2509</b>	<b>0.1722</b>	<b>2.5000e-004</b>		<b>0.0169</b>	<b>0.0169</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>22.7505</b>	<b>22.7505</b>	<b>5.6000e-003</b>	<b>0.0000</b>	<b>22.8681</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	8.4800e-003	0.0299	0.0601	8.0000e-005	2.2800e-003	4.5000e-004	2.7200e-003	6.5000e-004	4.1000e-004	1.0600e-003	0.0000	7.4028	7.4028	6.0000e-005	0.0000	7.4040
Worker	0.0101	2.7800e-003	0.0291	7.0000e-005	5.7200e-003	4.0000e-005	5.7600e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	4.9040	4.9040	2.5000e-004	0.0000	4.9092
<b>Total</b>	<b>0.0186</b>	<b>0.0327</b>	<b>0.0893</b>	<b>1.5000e-004</b>	<b>8.0000e-003</b>	<b>4.9000e-004</b>	<b>8.4800e-003</b>	<b>2.1700e-003</b>	<b>4.5000e-004</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>12.3068</b>	<b>12.3068</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>12.3132</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:	0.0294	0.2506	0.1720	2.5000e-004		0.0169	0.0169		0.0159	0.0159	0.0000	22.7235	22.7235	5.5900e-003	0.0000	22.8409
<b>Total</b>	<b>0.0294</b>	<b>0.2506</b>	<b>0.1720</b>	<b>2.5000e-004</b>		<b>0.0169</b>	<b>0.0169</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>22.7235</b>	<b>22.7235</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>22.8409</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	8.4800e-003	0.0299	0.0601	8.0000e-005	2.2800e-003	4.5000e-004	2.7200e-003	6.5000e-004	4.1000e-004	1.0600e-003	0.0000	7.4028	7.4028	6.0000e-005	0.0000	7.4040
Worker	0.0101	2.7800e-003	0.0291	7.0000e-005	5.7200e-003	4.0000e-005	5.7600e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	4.9040	4.9040	2.5000e-004	0.0000	4.9092
<b>Total</b>	<b>0.0186</b>	<b>0.0327</b>	<b>0.0893</b>	<b>1.5000e-004</b>	<b>8.0000e-003</b>	<b>4.9000e-004</b>	<b>8.4800e-003</b>	<b>2.1700e-003</b>	<b>4.5000e-004</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>12.3068</b>	<b>12.3068</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>12.3132</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	0.0191	0.2030	0.1473	2.2000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	20.6934	20.6934	6.3400e-003	0.0000	20.8266
Paving	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>0.0191</b>	<b>0.2030</b>	<b>0.1473</b>	<b>2.2000e-004</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>20.6934</b>	<b>20.6934</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.8266</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	1.9400e-003	5.4000e-004	5.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9443	0.9443	5.0000e-005	0.0000	0.9453
<b>Total</b>	<b>1.9400e-003</b>	<b>5.4000e-004</b>	<b>5.6100e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9443</b>	<b>0.9443</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9453</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	0.0191	0.2027	0.1471	2.2000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	20.6688	20.6688	6.3300e-003	0.0000	20.8018
Paving	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>0.0191</b>	<b>0.2027</b>	<b>0.1471</b>	<b>2.2000e-004</b>		<b>0.0114</b>	<b>0.0114</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>20.6688</b>	<b>20.6688</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>20.8018</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	1.9400e-003	5.4000e-004	5.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9443	0.9443	5.0000e-005	0.0000	0.9453
<b>Total</b>	<b>1.9400e-003</b>	<b>5.4000e-004</b>	<b>5.6100e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.9443</b>	<b>0.9443</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9453</b>



**3.7 Architectural Coating - 2017****Unmitigated Construction On-Site****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 382,500; Non-Residential Outdoor: 127,500**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0219	0.0187	3.0000e-005		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	2.5533	2.5533	2.7000e-004	0.0000	2.5589
<b>Total</b>	<b>1.7762</b>	<b>0.0219</b>	<b>0.0187</b>	<b>3.0000e-005</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.5589</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	2.0700e-003	5.7000e-004	5.9800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0072	1.0072	5.0000e-005	0.0000	1.0083
<b>Total</b>	<b>2.0700e-003</b>	<b>5.7000e-004</b>	<b>5.9800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0072</b>	<b>1.0072</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.0083</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	1.7729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0218	0.0187	3.0000e-005		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	2.5502	2.5502	2.7000e-004	0.0000	2.5559
<b>Total</b>	<b>1.7762</b>	<b>0.0218</b>	<b>0.0187</b>	<b>3.0000e-005</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>		<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>2.5502</b>	<b>2.5502</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.5559</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	2.0700e-003	5.7000e-004	5.9800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0072	1.0072	5.0000e-005	0.0000	1.0083
<b>Total</b>	<b>2.0700e-003</b>	<b>5.7000e-004</b>	<b>5.9800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0072</b>	<b>1.0072</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.0083</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	5.1484	4.0519	19.1317	0.0465	3.2533	0.0577	3.3109	0.8716	0.0532	0.9248	0.0000	3,326.5492	3,326.5492	0.1300	0.0000	3,329.2792
Unmitigated	5.1484	4.0519	19.1317	0.0465	3.2533	0.0577	3.3109	0.8716	0.0532	0.9248	0.0000	3,326.5492	3,326.5492	0.1300	0.0000	3,329.2792

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	220.20	47.40	19.60	344,577	344,577
Hospital	3,877.50	2,392.30	2093.85	8,394,579	8,394,579
<b>Total</b>	<b>4,097.70</b>	<b>2,439.70</b>	<b>2,113.45</b>	<b>8,739,157</b>	<b>8,739,157</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2

### 4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504051	0.067969	0.178847	0.146822	0.044632	0.006327	0.021095	0.016719	0.002306	0.002274	0.006223	0.000559	0.002177

### 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,531.0234	1,531.0234	0.0692	0.0143	1,536.9174
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,531.0234	1,531.0234	0.0692	0.0143	1,536.9174
NaturalGas Mitigated	0.0874	0.7946	0.6675	4.7700e-003		0.0604	0.0604		0.0604	0.0604	0.0000	865.0460	865.0460	0.0166	0.0159	870.3105
NaturalGas Unmitigated	0.0874	0.7946	0.6675	4.7700e-003		0.0604	0.0604		0.0604	0.0604	0.0000	865.0460	865.0460	0.0166	0.0159	870.3105

**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					
General Office Building	275000	1.4800e-003	0.0135	0.0113	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6751	14.6751	2.8000e-004	2.7000e-004	14.7644
Hospital	1.59354e+007	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594	0.0000	850.3710	850.3710	0.0163	0.0156	855.5462
<b>Total</b>		<b>0.0874</b>	<b>0.7946</b>	<b>0.6675</b>	<b>4.7700e-003</b>		<b>0.0604</b>	<b>0.0604</b>		<b>0.0604</b>	<b>0.0604</b>	<b>0.0000</b>	<b>865.0460</b>	<b>865.0460</b>	<b>0.0166</b>	<b>0.0159</b>	<b>870.3105</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hospital	1.59354e+007	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594	0.0000	850.3710	850.3710	0.0163	0.0156	855.5462
General Office Building	275000	1.4800e-003	0.0135	0.0113	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6751	14.6751	2.8000e-004	2.7000e-004	14.7644
<b>Total</b>		<b>0.0874</b>	<b>0.7946</b>	<b>0.6675</b>	<b>4.7700e-003</b>		<b>0.0604</b>	<b>0.0604</b>		<b>0.0604</b>	<b>0.0604</b>	<b>0.0000</b>	<b>865.0460</b>	<b>865.0460</b>	<b>0.0166</b>	<b>0.0159</b>	<b>870.3105</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	320800		93.3244	4.2200e-003	8.7000e-004	93.6837
Hospital	4.94205e+006		1,437.6990	0.0650	0.0135	1,443.2337
<b>Total</b>			<b>1,531.0234</b>	<b>0.0692</b>	<b>0.0143</b>	<b>1,536.9174</b>

#### Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	320800		93.3244	4.2200e-003	8.7000e-004	93.6837
Hospital	4.94205e+006		1,437.6990	0.0650	0.0135	1,443.2337
<b>Total</b>			<b>1,531.0234</b>	<b>0.0692</b>	<b>0.0143</b>	<b>1,536.9174</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	1.1735	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-003
Unmitigated	1.1735	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-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	0.1773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-003
<b>Total</b>	<b>1.1735</b>	<b>3.0000e-005</b>	<b>3.2900e-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>6.3300e-003</b>	<b>6.3300e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6900e-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	0.1773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	3.0000e-005	3.2900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.3300e-003	6.3300e-003	2.0000e-005	0.0000	6.6900e-003
<b>Total</b>	<b>1.1735</b>	<b>3.0000e-005</b>	<b>3.2900e-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>6.3300e-003</b>	<b>6.3300e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6900e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		67.5228	0.0429	0.0260	76.4770
Unmitigated		67.5228	0.0428	0.0260	76.4639



## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	3.55467 / 2.17867		8.6284	4.6600e-003	2.8000e-003	9.5956
Hospital	29.4879 / 5.61675		58.8944	0.0381	0.0231	66.8684
<b>Total</b>			<b>67.5229</b>	<b>0.0428</b>	<b>0.0259</b>	<b>76.4639</b>

### Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	3.55467 / 2.17867		8.6284	4.6800e-003	2.8100e-003	9.5970
Hospital	29.4879 / 5.61675		58.8944	0.0382	0.0232	66.8800
<b>Total</b>			<b>67.5229</b>	<b>0.0429</b>	<b>0.0260</b>	<b>76.4770</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		518.9667	30.6701	0.0000	1,163.0378
Unmitigated		518.9667	30.6701	0.0000	1,163.0378

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	18.6		3.7756	0.2231	0.0000	8.4614
Hospital	2538		515.1911	30.4469	0.0000	1,154.5764
<b>Total</b>			<b>518.9667</b>	<b>30.6701</b>	<b>0.0000</b>	<b>1,163.0378</b>

**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	18.6		3.7756	0.2231	0.0000	8.4614
Hospital	2538		515.1911	30.4469	0.0000	1,154.5764
<b>Total</b>			<b>518.9667</b>	<b>30.6701</b>	<b>0.0000</b>	<b>1,163.0378</b>

**9.0 Operational Offroad**

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

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## UC Davis Sacramento North/South Wing Existing Operational Sacramento County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	235.00	1000sqft	5.39	235,000.00	0
General Office Building	20.00	1000sqft	0.46	20,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Natural gas source is PG&E.

Land Use -

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2019

### 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					
2016	5.6272	54.6972	41.9739	0.0436	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	4,209.1986	4,209.1986	1.2331	0.0000	4,235.0937
2017	177.8351	29.6574	26.9717	0.0436	0.8705	1.8322	2.7028	0.2357	1.7199	1.9556	0.0000	4,131.6160	4,131.6160	0.7042	0.0000	4,146.4041
<b>Total</b>	<b>183.4622</b>	<b>84.3546</b>	<b>68.9456</b>	<b>0.0871</b>	<b>19.0737</b>	<b>4.7719</b>	<b>23.8457</b>	<b>10.2027</b>	<b>4.4244</b>	<b>14.6271</b>	<b>0.0000</b>	<b>8,340.8146</b>	<b>8,340.8146</b>	<b>1.9373</b>	<b>0.0000</b>	<b>8,381.4978</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					
2016	5.6240	54.6471	41.9362	0.0436	18.2032	2.9370	21.1402	9.9670	2.7020	12.6690	0.0000	4,205.4469	4,205.4469	1.2320	0.0000	4,231.3184
2017	177.8348	29.6332	26.9551	0.0435	0.8705	1.8306	2.7012	0.2357	1.7183	1.9541	0.0000	4,129.1941	4,129.1941	0.7036	0.0000	4,143.9688
<b>Total</b>	<b>183.4588</b>	<b>84.2803</b>	<b>68.8912</b>	<b>0.0871</b>	<b>19.0737</b>	<b>4.7676</b>	<b>23.8413</b>	<b>10.2027</b>	<b>4.4204</b>	<b>14.6231</b>	<b>0.0000</b>	<b>8,334.6410</b>	<b>8,334.6410</b>	<b>1.9355</b>	<b>0.0000</b>	<b>8,375.2872</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>1.8641e-003</b>	<b>0.0881</b>	<b>0.0788</b>	<b>0.0574</b>	<b>0.0000</b>	<b>0.0905</b>	<b>0.0182</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0274</b>	<b>0.0000</b>	<b>0.0740</b>	<b>0.0740</b>	<b>0.0908</b>	<b>0.0000</b>	<b>0.0741</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	lb/day										lb/day					
Area	6.4309	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590
Energy	0.4790	4.3541	3.6575	0.0261		0.3309	0.3309		0.3309	0.3309		5,224.9315	5,224.9315	0.1001	0.0958	5,256.7296
Mobile	33.6197	23.6606	126.9200	0.3170	21.1727	0.3622	21.5348	5.6560	0.3340	5.9900		24,908.9692	24,908.9692	0.9017		24,927.9049
<b>Total</b>	<b>40.5296</b>	<b>28.0149</b>	<b>130.6038</b>	<b>0.3431</b>	<b>21.1727</b>	<b>0.6932</b>	<b>21.8658</b>	<b>5.6560</b>	<b>0.6650</b>	<b>6.3210</b>		<b>30,133.9565</b>	<b>30,133.9565</b>	<b>1.0020</b>	<b>0.0958</b>	<b>30,184.6934</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	6.4309	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590
Energy	0.4790	4.3541	3.6575	0.0261		0.3309	0.3309		0.3309	0.3309		5,224.9315	5,224.9315	0.1001	0.0958	5,256.7296
Mobile	33.6197	23.6606	126.9200	0.3170	21.1727	0.3622	21.5348	5.6560	0.3340	5.9900		24,908.9692	24,908.9692	0.9017		24,927.9049
<b>Total</b>	<b>40.5296</b>	<b>28.0149</b>	<b>130.6038</b>	<b>0.3431</b>	<b>21.1727</b>	<b>0.6932</b>	<b>21.8658</b>	<b>5.6560</b>	<b>0.6650</b>	<b>6.3210</b>		<b>30,133.9565</b>	<b>30,133.9565</b>	<b>1.0020</b>	<b>0.0958</b>	<b>30,184.6934</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/11/2016	5	10	
3	Grading	Grading	2/12/2016	3/10/2016	5	20	
4	Building Construction	Building Construction	3/11/2016	1/26/2017	5	230	
5	Paving	Paving	1/27/2017	2/23/2017	5	20	
6	Architectural Coating	Architectural Coating	2/24/2017	3/23/2017	5	20	

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38

Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2016**

**Unmitigated Construction On-Site**

**Acres of Grading: 0**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.2841	4,089.2841	1.1121		4,112.6374
<b>Total</b>	<b>4.2876</b>	<b>45.6559</b>	<b>35.0303</b>	<b>0.0399</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.1365</b>	<b>2.1365</b>		<b>4,089.2841</b>	<b>4,089.2841</b>	<b>1.1121</b>		<b>4,112.6374</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	0.2195	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.2195</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</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	4.2837	45.6140	34.9982	0.0399		2.2900	2.2900		2.1346	2.1346	0.0000	4,085.5324	4,085.5324	1.1110		4,108.8642
<b>Total</b>	<b>4.2837</b>	<b>45.6140</b>	<b>34.9982</b>	<b>0.0399</b>		<b>2.2900</b>	<b>2.2900</b>		<b>2.1346</b>	<b>2.1346</b>	<b>0.0000</b>	<b>4,085.5324</b>	<b>4,085.5324</b>	<b>1.1110</b>		<b>4,108.8642</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	0.2195	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.2195</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</b>

### 3.3 Site Preparation - 2016

#### Unmitigated Construction On-Site

Acres of Grading: 10

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>		<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	0.2634	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
<b>Total</b>	<b>0.2634</b>	<b>0.0649</b>	<b>0.8686</b>	<b>1.7500e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>143.8975</b>	<b>143.8975</b>	<b>6.9500e-003</b>		<b>144.0434</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0724	54.5822	41.0676	0.0391		2.9360	2.9360		2.7011	2.7011	0.0000	4,061.2758	4,061.2758	1.2250		4,087.0014
<b>Total</b>	<b>5.0724</b>	<b>54.5822</b>	<b>41.0676</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9360</b>	<b>21.0022</b>	<b>9.9307</b>	<b>2.7011</b>	<b>12.6318</b>	<b>0.0000</b>	<b>4,061.2758</b>	<b>4,061.2758</b>	<b>1.2250</b>		<b>4,087.0014</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	0.2634	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
<b>Total</b>	<b>0.2634</b>	<b>0.0649</b>	<b>0.8686</b>	<b>1.7500e-003</b>	<b>0.1369</b>	<b>1.0100e-003</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.2000e-004</b>	<b>0.0373</b>		<b>143.8975</b>	<b>143.8975</b>	<b>6.9500e-003</b>		<b>144.0434</b>

### 3.4 Grading - 2016

#### 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.5523</b>	<b>2.1984</b>	<b>8.7507</b>	<b>3.3675</b>	<b>2.0225</b>	<b>5.3900</b>		<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	0.2195	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.2195</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6635	38.4113	26.0548	0.0297		2.1964	2.1964		2.0207	2.0207	0.0000	3,090.9505	3,090.9505	0.9323		3,110.5297
<b>Total</b>	<b>3.6635</b>	<b>38.4113</b>	<b>26.0548</b>	<b>0.0297</b>	<b>6.5523</b>	<b>2.1964</b>	<b>8.7487</b>	<b>3.3675</b>	<b>2.0207</b>	<b>5.3882</b>	<b>0.0000</b>	<b>3,090.9505</b>	<b>3,090.9505</b>	<b>0.9323</b>		<b>3,110.5297</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	0.2195	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
<b>Total</b>	<b>0.2195</b>	<b>0.0541</b>	<b>0.7239</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.4000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.7000e-004</b>	<b>0.0310</b>		<b>119.9145</b>	<b>119.9145</b>	<b>5.7900e-003</b>		<b>120.0362</b>

### 3.5 Building Construction - 2016

#### Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>		<b>2,669.2864</b>	<b>2,669.2864</b>	<b>0.6620</b>		<b>2,683.1890</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	1.0209	3.3733	5.9186	8.7900e-003	0.2467	0.0553	0.3020	0.0702	0.0508	0.1210		876.8902	876.8902	6.9000e-003		877.0351
Worker	1.2000	0.2956	3.9571	7.9800e-003	0.6238	4.5800e-003	0.6284	0.1655	4.2100e-003	0.1697		655.5328	655.5328	0.0317		656.1979
<b>Total</b>	<b>2.2209</b>	<b>3.6689</b>	<b>9.8757</b>	<b>0.0168</b>	<b>0.8705</b>	<b>0.0599</b>	<b>0.9304</b>	<b>0.2357</b>	<b>0.0550</b>	<b>0.2907</b>		<b>1,532.4231</b>	<b>1,532.4231</b>	<b>0.0386</b>		<b>1,533.2330</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4031	28.4802	18.4897	0.0268		1.9656	1.9656		1.8468	1.8468	0.0000	2,666.8375	2,666.8375	0.6614		2,680.7273
<b>Total</b>	<b>3.4031</b>	<b>28.4802</b>	<b>18.4897</b>	<b>0.0268</b>		<b>1.9656</b>	<b>1.9656</b>		<b>1.8468</b>	<b>1.8468</b>	<b>0.0000</b>	<b>2,666.8375</b>	<b>2,666.8375</b>	<b>0.6614</b>		<b>2,680.7273</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	1.0209	3.3733	5.9186	8.7900e-003	0.2467	0.0553	0.3020	0.0702	0.0508	0.1210		876.8902	876.8902	6.9000e-003		877.0351
Worker	1.2000	0.2956	3.9571	7.9800e-003	0.6238	4.5800e-003	0.6284	0.1655	4.2100e-003	0.1697		655.5328	655.5328	0.0317		656.1979
<b>Total</b>	<b>2.2209</b>	<b>3.6689</b>	<b>9.8757</b>	<b>0.0168</b>	<b>0.8705</b>	<b>0.0599</b>	<b>0.9304</b>	<b>0.2357</b>	<b>0.0550</b>	<b>0.2907</b>		<b>1,532.4231</b>	<b>1,532.4231</b>	<b>0.0386</b>		<b>1,533.2330</b>



### 3.5 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>		<b>2,653.4490</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	0.8580	2.9875	5.3001	8.7600e-003	0.2468	0.0466	0.2934	0.0703	0.0428	0.1131		862.1334	862.1334	6.4300e-003		862.2684
Worker	1.0969	0.2643	3.5425	7.9800e-003	0.6238	4.4300e-003	0.6282	0.1655	4.0800e-003	0.1696		629.6773	629.6773	0.0289		630.2840
<b>Total</b>	<b>1.9549</b>	<b>3.2518</b>	<b>8.8426</b>	<b>0.0167</b>	<b>0.8705</b>	<b>0.0510</b>	<b>0.9216</b>	<b>0.2357</b>	<b>0.0469</b>	<b>0.2826</b>		<b>1,491.8107</b>	<b>1,491.8107</b>	<b>0.0353</b>		<b>1,492.5524</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0995	26.3814	18.1125	0.0268		1.7796	1.7796		1.6714	1.6714	0.0000	2,637.3834	2,637.3834	0.6491		2,651.0146
<b>Total</b>	<b>3.0995</b>	<b>26.3814</b>	<b>18.1125</b>	<b>0.0268</b>		<b>1.7796</b>	<b>1.7796</b>		<b>1.6714</b>	<b>1.6714</b>	<b>0.0000</b>	<b>2,637.3834</b>	<b>2,637.3834</b>	<b>0.6491</b>		<b>2,651.0146</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	0.8580	2.9875	5.3001	8.7600e-003	0.2468	0.0466	0.2934	0.0703	0.0428	0.1131		862.1334	862.1334	6.4300e-003		862.2684
Worker	1.0969	0.2643	3.5425	7.9800e-003	0.6238	4.4300e-003	0.6282	0.1655	4.0800e-003	0.1696		629.6773	629.6773	0.0289		630.2840
<b>Total</b>	<b>1.9549</b>	<b>3.2518</b>	<b>8.8426</b>	<b>0.0167</b>	<b>0.8705</b>	<b>0.0510</b>	<b>0.9216</b>	<b>0.2357</b>	<b>0.0469</b>	<b>0.2826</b>		<b>1,491.8107</b>	<b>1,491.8107</b>	<b>0.0353</b>		<b>1,492.5524</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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9074</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>		<b>2,281.0588</b>	<b>2,281.0588</b>	<b>0.6989</b>		<b>2,295.7360</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	0.2007	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
<b>Total</b>	<b>0.2007</b>	<b>0.0483</b>	<b>0.6480</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>115.1849</b>	<b>115.1849</b>	<b>5.2800e-003</b>		<b>115.2959</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	1.9056	20.2778	14.7135	0.0223		1.1374	1.1374		1.0464	1.0464	0.0000	2,278.9661	2,278.9661	0.6983		2,293.6297
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9056</b>	<b>20.2778</b>	<b>14.7135</b>	<b>0.0223</b>		<b>1.1374</b>	<b>1.1374</b>		<b>1.0464</b>	<b>1.0464</b>	<b>0.0000</b>	<b>2,278.9661</b>	<b>2,278.9661</b>	<b>0.6983</b>		<b>2,293.6297</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	0.2007	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
<b>Total</b>	<b>0.2007</b>	<b>0.0483</b>	<b>0.6480</b>	<b>1.4600e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>115.1849</b>	<b>115.1849</b>	<b>5.2800e-003</b>		<b>115.2959</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 382,500; Non-Residential Outdoor: 127,500**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	177.2888					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		282.0721
<b>Total</b>	<b>177.6211</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>282.0721</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	0.2140	0.0516	0.6912	1.5600e-003	0.1217	8.6000e-004	0.1226	0.0323	8.0000e-004	0.0331		122.8639	122.8639	5.6400e-003		122.9822
<b>Total</b>	<b>0.2140</b>	<b>0.0516</b>	<b>0.6912</b>	<b>1.5600e-003</b>	<b>0.1217</b>	<b>8.6000e-004</b>	<b>0.1226</b>	<b>0.0323</b>	<b>8.0000e-004</b>	<b>0.0331</b>		<b>122.8639</b>	<b>122.8639</b>	<b>5.6400e-003</b>		<b>122.9822</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	177.2888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3320	2.1830	1.8664	2.9700e-003		0.1732	0.1732		0.1732	0.1732	0.0000	281.1898	281.1898	0.0297		281.8133
<b>Total</b>	<b>177.6208</b>	<b>2.1830</b>	<b>1.8664</b>	<b>2.9700e-003</b>		<b>0.1732</b>	<b>0.1732</b>		<b>0.1732</b>	<b>0.1732</b>	<b>0.0000</b>	<b>281.1898</b>	<b>281.1898</b>	<b>0.0297</b>		<b>281.8133</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	0.2140	0.0516	0.6912	1.5600e-003	0.1217	8.6000e-004	0.1226	0.0323	8.0000e-004	0.0331		122.8639	122.8639	5.6400e-003		122.9822
<b>Total</b>	<b>0.2140</b>	<b>0.0516</b>	<b>0.6912</b>	<b>1.5600e-003</b>	<b>0.1217</b>	<b>8.6000e-004</b>	<b>0.1226</b>	<b>0.0323</b>	<b>8.0000e-004</b>	<b>0.0331</b>		<b>122.8639</b>	<b>122.8639</b>	<b>5.6400e-003</b>		<b>122.9822</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	33.6197	23.6606	126.9200	0.3170	21.1727	0.3622	21.5348	5.6560	0.3340	5.9900		24,908.9692	24,908.9692	0.9017		24,927.9049
Unmitigated	33.6197	23.6606	126.9200	0.3170	21.1727	0.3622	21.5348	5.6560	0.3340	5.9900		24,908.9692	24,908.9692	0.9017		24,927.9049

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	220.20	47.40	19.60	344,577	344,577
Hospital	3,877.50	2,392.30	2093.85	8,394,579	8,394,579
<b>Total</b>	<b>4,097.70</b>	<b>2,439.70</b>	<b>2,113.45</b>	<b>8,739,157</b>	<b>8,739,157</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2

#### 4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504051	0.067969	0.178847	0.146822	0.044632	0.006327	0.021095	0.016719	0.002306	0.002274	0.006223	0.000559	0.002177

## 5.0 Energy Detail

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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	0.4790	4.3541	3.6575	0.0261		0.3309	0.3309		0.3309	0.3309		5,224.9315	5,224.9315	0.1001	0.0958	5,256.7296
NaturalGas Unmitigated	0.4790	4.3541	3.6575	0.0261		0.3309	0.3309		0.3309	0.3309		5,224.9315	5,224.9315	0.1001	0.0958	5,256.7296

### 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					
General Office Building	753.425	8.1300e-003	0.0739	0.0621	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003		88.6382	88.6382	1.7000e-003	1.6300e-003	89.1776
Hospital	43658.5	0.4708	4.2802	3.5954	0.0257		0.3253	0.3253		0.3253	0.3253		5,136.2933	5,136.2933	0.0985	0.0942	5,167.5519
<b>Total</b>		<b>0.4790</b>	<b>4.3541</b>	<b>3.6575</b>	<b>0.0261</b>		<b>0.3309</b>	<b>0.3309</b>		<b>0.3309</b>	<b>0.3309</b>		<b>5,224.9315</b>	<b>5,224.9315</b>	<b>0.1002</b>	<b>0.0958</b>	<b>5,256.7296</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					
Hospital	43.6585	0.4708	4.2802	3.5954	0.0257		0.3253	0.3253		0.3253	0.3253		5,136.2933	5,136.2933	0.0985	0.0942	5,167.5519
General Office Building	0.753425	8.1300e-003	0.0739	0.0621	4.4000e-004		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003		88.6382	88.6382	1.7000e-003	1.6300e-003	89.1776
<b>Total</b>		<b>0.4790</b>	<b>4.3541</b>	<b>3.6575</b>	<b>0.0261</b>		<b>0.3309</b>	<b>0.3309</b>		<b>0.3309</b>	<b>0.3309</b>		<b>5,224.9315</b>	<b>5,224.9315</b>	<b>0.1002</b>	<b>0.0958</b>	<b>5,256.7296</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	6.4309	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590
Unmitigated	6.4309	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590

### 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	0.9715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4900e-003	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590
<b>Total</b>	<b>6.4309</b>	<b>2.4000e-004</b>	<b>0.0263</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0558</b>	<b>0.0558</b>	<b>1.5000e-004</b>		<b>0.0590</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	0.9715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4900e-003	2.4000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0558	0.0558	1.5000e-004		0.0590
<b>Total</b>	<b>6.4309</b>	<b>2.4000e-004</b>	<b>0.0263</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0558</b>	<b>0.0558</b>	<b>1.5000e-004</b>		<b>0.0590</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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