



---

## APPENDIX B

# AIR QUALITY MODELING AND ANALYSIS



**This page intentionally left blank**

Cypress Place - Orange County, Annual

**Oxford Place  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.00	Acre	0.30	43,560.00	0
Apartments Low Rise	12.00	Dwelling Unit	1.50	12,000.00	34
Single Family Housing	33.00	Dwelling Unit	2.00	59,400.00	94

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Project specific info.

Demolition - Approximate building square footage from site plan.

Grading - Received from Client

Vehicle Trips - Trip Gen Source - LSA, 2017.

Woodstoves - Assuming compliance with SCAQMD Rule 445

Construction Off-road Equipment Mitigation - Assuming compliance with Rule 403

Off-road Equipment - Minimal site prep would be required as site is levelled with scanty vegetation. CalEEMod defaults are too conservative for the size and nature of the project site.

Off-road Equipment - Minimal site prep would be required as site is levelled. CalEEMod defaults are too conservative for the size and nature of the project site.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	5
tblFireplaces	NumberGas	10.20	12.00
tblFireplaces	NumberGas	28.05	33.00
tblFireplaces	NumberNoFireplace	1.20	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	0.60	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	AcresOfGrading	3.50	4.00
tblGrading	MaterialExported	0.00	6,625.00
tblLandUse	LotAcreage	1.00	0.30
tblLandUse	LotAcreage	0.75	1.50
tblLandUse	LotAcreage	10.71	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblVehicleTrips	ST_TR	7.16	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	6.07	7.32
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	6.59	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	0.60	0.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	0.60	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2019	4-30-2019	1.0606	1.0606
2	5-1-2019	7-31-2019	0.8251	0.8251
3	8-1-2019	10-31-2019	0.8255	0.8255
4	11-1-2019	1-31-2020	0.8010	0.8010
5	2-1-2020	4-30-2020	0.4007	0.4007
		Highest	1.0606	1.0606

## 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	0.2990	0.0147	0.4691	8.0000e-005		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	11.5643	11.5643	9.4000e-004	2.0000e-004	11.6468
Energy	5.4200e-003	0.0463	0.0197	3.0000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003	0.0000	158.6882	158.6882	5.3700e-003	1.8800e-003	159.3827
Mobile	0.1097	0.4801	1.5253	5.7600e-003	0.5176	4.2500e-003	0.5218	0.1386	3.9600e-003	0.1426	0.0000	530.4233	530.4233	0.0220	0.0000	530.9740
Waste						0.0000	0.0000		0.0000	0.0000	8.9438	0.0000	8.9438	0.5286	0.0000	22.1578
Water						0.0000	0.0000		0.0000	0.0000	0.9302	18.7070	19.6372	0.0963	2.4200e-003	22.7648
<b>Total</b>	<b>0.4140</b>	<b>0.5410</b>	<b>2.0141</b>	<b>6.1400e-003</b>	<b>0.5176</b>	<b>0.0113</b>	<b>0.5289</b>	<b>0.1386</b>	<b>0.0110</b>	<b>0.1496</b>	<b>9.8740</b>	<b>719.3827</b>	<b>729.2567</b>	<b>0.6532</b>	<b>4.5000e-003</b>	<b>746.9261</b>





### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2019	2/28/2019	5	20	
2	Site Preparation	Site Preparation	3/1/2019	3/7/2019	5	5	
3	Grading	Grading	3/8/2019	3/19/2019	5	8	
4	Building Construction	Building Construction	3/20/2019	2/4/2020	5	230	
5	Paving	Paving	2/5/2020	2/28/2020	5	18	
6	Architectural Coating	Architectural Coating	2/29/2020	3/25/2020	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.3

Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	7.00	158	0.38
Grading	Graders	1	7.00	187	0.41
Grading	Rubber Tired Dozers	1	7.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	159.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	0.00	655.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	39.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 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					0.0172	0.0000	0.0172	2.6100e-003	0.0000	2.6100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>0.0172</b>	<b>0.0180</b>	<b>0.0352</b>	<b>2.6100e-003</b>	<b>0.0167</b>	<b>0.0193</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8672</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-004	0.0243	5.8000e-003	6.0000e-005	1.3600e-003	9.0000e-005	1.4500e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	6.1823	6.1823	6.6000e-004	0.0000	6.1987
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.0700e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4724	1.4724	4.0000e-005	0.0000	1.4733
<b>Total</b>	<b>1.3000e-003</b>	<b>0.0248</b>	<b>0.0109</b>	<b>8.0000e-005</b>	<b>3.0100e-003</b>	<b>1.0000e-004</b>	<b>3.1100e-003</b>	<b>8.1000e-004</b>	<b>1.0000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>7.6547</b>	<b>7.6547</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.6720</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					7.7500e-003	0.0000	7.7500e-003	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>7.7500e-003</b>	<b>0.0180</b>	<b>0.0257</b>	<b>1.1700e-003</b>	<b>0.0167</b>	<b>0.0179</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8671</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-004	0.0243	5.8000e-003	6.0000e-005	1.3600e-003	9.0000e-005	1.4500e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	6.1823	6.1823	6.6000e-004	0.0000	6.1987
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.0700e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4724	1.4724	4.0000e-005	0.0000	1.4733
<b>Total</b>	<b>1.3000e-003</b>	<b>0.0248</b>	<b>0.0109</b>	<b>8.0000e-005</b>	<b>3.0100e-003</b>	<b>1.0000e-004</b>	<b>3.1100e-003</b>	<b>8.1000e-004</b>	<b>1.0000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>7.6547</b>	<b>7.6547</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.6720</b>

### 3.3 Site Preparation - 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					0.0226	0.0000	0.0226	0.0124	0.0000	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0540	0.0247	4.0000e-005		2.7900e-003	2.7900e-003		2.5700e-003	2.5700e-003	0.0000	3.9223	3.9223	1.2400e-003	0.0000	3.9534
<b>Total</b>	<b>5.1300e-003</b>	<b>0.0540</b>	<b>0.0247</b>	<b>4.0000e-005</b>	<b>0.0226</b>	<b>2.7900e-003</b>	<b>0.0254</b>	<b>0.0124</b>	<b>2.5700e-003</b>	<b>0.0150</b>	<b>0.0000</b>	<b>3.9223</b>	<b>3.9223</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.9534</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	1.9000e-004	1.4000e-004	1.5200e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4417	0.4417	1.0000e-005	0.0000	0.4420
<b>Total</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4417</b>	<b>0.4417</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4420</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					0.0102	0.0000	0.0102	5.5900e-003	0.0000	5.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1300e-003	0.0540	0.0247	4.0000e-005		2.7900e-003	2.7900e-003		2.5700e-003	2.5700e-003	0.0000	3.9223	3.9223	1.2400e-003	0.0000	3.9534
<b>Total</b>	<b>5.1300e-003</b>	<b>0.0540</b>	<b>0.0247</b>	<b>4.0000e-005</b>	<b>0.0102</b>	<b>2.7900e-003</b>	<b>0.0130</b>	<b>5.5900e-003</b>	<b>2.5700e-003</b>	<b>8.1600e-003</b>	<b>0.0000</b>	<b>3.9223</b>	<b>3.9223</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.9534</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	1.9000e-004	1.4000e-004	1.5200e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4417	0.4417	1.0000e-005	0.0000	0.4420
<b>Total</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4417</b>	<b>0.4417</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4420</b>

### 3.4 Grading - 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					0.0232	0.0000	0.0232	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4000e-003	0.0829	0.0409	8.0000e-005		3.8000e-003	3.8000e-003		3.4900e-003	3.4900e-003	0.0000	7.3718	7.3718	2.3300e-003	0.0000	7.4301
<b>Total</b>	<b>7.4000e-003</b>	<b>0.0829</b>	<b>0.0409</b>	<b>8.0000e-005</b>	<b>0.0232</b>	<b>3.8000e-003</b>	<b>0.0270</b>	<b>0.0118</b>	<b>3.4900e-003</b>	<b>0.0153</b>	<b>0.0000</b>	<b>7.3718</b>	<b>7.3718</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>7.4301</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	2.7500e-003	0.1003	0.0239	2.5000e-004	5.6100e-003	3.8000e-004	5.9900e-003	1.5400e-003	3.6000e-004	1.9000e-003	0.0000	25.4678	25.4678	2.7100e-003	0.0000	25.5354
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.0300e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5890	0.5890	1.0000e-005	0.0000	0.5893
<b>Total</b>	<b>3.0000e-003</b>	<b>0.1004</b>	<b>0.0259</b>	<b>2.6000e-004</b>	<b>6.2700e-003</b>	<b>3.8000e-004</b>	<b>6.6500e-003</b>	<b>1.7100e-003</b>	<b>3.6000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>26.0568</b>	<b>26.0568</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>26.1248</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					0.0104	0.0000	0.0104	5.3200e-003	0.0000	5.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4000e-003	0.0829	0.0409	8.0000e-005		3.8000e-003	3.8000e-003		3.4900e-003	3.4900e-003	0.0000	7.3718	7.3718	2.3300e-003	0.0000	7.4301
<b>Total</b>	<b>7.4000e-003</b>	<b>0.0829</b>	<b>0.0409</b>	<b>8.0000e-005</b>	<b>0.0104</b>	<b>3.8000e-003</b>	<b>0.0142</b>	<b>5.3200e-003</b>	<b>3.4900e-003</b>	<b>8.8100e-003</b>	<b>0.0000</b>	<b>7.3718</b>	<b>7.3718</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>7.4301</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	2.7500e-003	0.1003	0.0239	2.5000e-004	5.6100e-003	3.8000e-004	5.9900e-003	1.5400e-003	3.6000e-004	1.9000e-003	0.0000	25.4678	25.4678	2.7100e-003	0.0000	25.5354
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.0300e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5890	0.5890	1.0000e-005	0.0000	0.5893
<b>Total</b>	<b>3.0000e-003</b>	<b>0.1004</b>	<b>0.0259</b>	<b>2.6000e-004</b>	<b>6.2700e-003</b>	<b>3.8000e-004</b>	<b>6.6500e-003</b>	<b>1.7100e-003</b>	<b>3.6000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>26.0568</b>	<b>26.0568</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>26.1248</b>



### 3.5 Building Construction - 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					
Off-Road	0.2420	2.1606	1.7593	2.7600e-003		0.1322	0.1322		0.1243	0.1243	0.0000	240.9818	240.9818	0.0587	0.0000	242.4494
<b>Total</b>	<b>0.2420</b>	<b>2.1606</b>	<b>1.7593</b>	<b>2.7600e-003</b>		<b>0.1322</b>	<b>0.1322</b>		<b>0.1243</b>	<b>0.1243</b>	<b>0.0000</b>	<b>240.9818</b>	<b>240.9818</b>	<b>0.0587</b>	<b>0.0000</b>	<b>242.4494</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	4.7000e-003	0.1424	0.0387	3.1000e-004	7.7400e-003	9.5000e-004	8.6900e-003	2.2300e-003	9.1000e-004	3.1400e-003	0.0000	30.1489	30.1489	2.6300e-003	0.0000	30.2147
Worker	0.0167	0.0122	0.1352	4.3000e-004	0.0439	3.0000e-004	0.0442	0.0117	2.7000e-004	0.0119	0.0000	39.2402	39.2402	9.7000e-004	0.0000	39.2644
<b>Total</b>	<b>0.0214</b>	<b>0.1545</b>	<b>0.1740</b>	<b>7.4000e-004</b>	<b>0.0516</b>	<b>1.2500e-003</b>	<b>0.0529</b>	<b>0.0139</b>	<b>1.1800e-003</b>	<b>0.0151</b>	<b>0.0000</b>	<b>69.3891</b>	<b>69.3891</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>69.4791</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	0.2420	2.1606	1.7593	2.7600e-003		0.1322	0.1322		0.1243	0.1243	0.0000	240.9815	240.9815	0.0587	0.0000	242.4492
<b>Total</b>	<b>0.2420</b>	<b>2.1606</b>	<b>1.7593</b>	<b>2.7600e-003</b>		<b>0.1322</b>	<b>0.1322</b>		<b>0.1243</b>	<b>0.1243</b>	<b>0.0000</b>	<b>240.9815</b>	<b>240.9815</b>	<b>0.0587</b>	<b>0.0000</b>	<b>242.4492</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	4.7000e-003	0.1424	0.0387	3.1000e-004	7.7400e-003	9.5000e-004	8.6900e-003	2.2300e-003	9.1000e-004	3.1400e-003	0.0000	30.1489	30.1489	2.6300e-003	0.0000	30.2147
Worker	0.0167	0.0122	0.1352	4.3000e-004	0.0439	3.0000e-004	0.0442	0.0117	2.7000e-004	0.0119	0.0000	39.2402	39.2402	9.7000e-004	0.0000	39.2644
<b>Total</b>	<b>0.0214</b>	<b>0.1545</b>	<b>0.1740</b>	<b>7.4000e-004</b>	<b>0.0516</b>	<b>1.2500e-003</b>	<b>0.0529</b>	<b>0.0139</b>	<b>1.1800e-003</b>	<b>0.0151</b>	<b>0.0000</b>	<b>69.3891</b>	<b>69.3891</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>69.4791</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0265	0.2398	0.2106	3.4000e-004		0.0140	0.0140		0.0131	0.0131	0.0000	28.9513	28.9513	7.0600e-003	0.0000	29.1278
<b>Total</b>	<b>0.0265</b>	<b>0.2398</b>	<b>0.2106</b>	<b>3.4000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0131</b>	<b>0.0131</b>	<b>0.0000</b>	<b>28.9513</b>	<b>28.9513</b>	<b>7.0600e-003</b>	<b>0.0000</b>	<b>29.1278</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	4.9000e-004	0.0159	4.3300e-003	4.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	3.6514	3.6514	3.1000e-004	0.0000	3.6590
Worker	1.9000e-003	1.3300e-003	0.0151	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.6320	4.6320	1.1000e-004	0.0000	4.6347
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0172</b>	<b>0.0194</b>	<b>9.0000e-005</b>	<b>6.2900e-003</b>	<b>1.2000e-004</b>	<b>6.4200e-003</b>	<b>1.6900e-003</b>	<b>1.1000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>8.2834</b>	<b>8.2834</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>8.2937</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	0.0265	0.2398	0.2106	3.4000e-004		0.0140	0.0140		0.0131	0.0131	0.0000	28.9512	28.9512	7.0600e-003	0.0000	29.1278
<b>Total</b>	<b>0.0265</b>	<b>0.2398</b>	<b>0.2106</b>	<b>3.4000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0131</b>	<b>0.0131</b>	<b>0.0000</b>	<b>28.9512</b>	<b>28.9512</b>	<b>7.0600e-003</b>	<b>0.0000</b>	<b>29.1278</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	4.9000e-004	0.0159	4.3300e-003	4.0000e-005	9.4000e-004	8.0000e-005	1.0300e-003	2.7000e-004	8.0000e-005	3.5000e-004	0.0000	3.6514	3.6514	3.1000e-004	0.0000	3.6590
Worker	1.9000e-003	1.3300e-003	0.0151	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.6320	4.6320	1.1000e-004	0.0000	4.6347
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0172</b>	<b>0.0194</b>	<b>9.0000e-005</b>	<b>6.2900e-003</b>	<b>1.2000e-004</b>	<b>6.4200e-003</b>	<b>1.6900e-003</b>	<b>1.1000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>8.2834</b>	<b>8.2834</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>8.2937</b>

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0110</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</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	7.0000e-004	4.9000e-004	5.5800e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7103	1.7103	4.0000e-005	0.0000	1.7113
<b>Total</b>	<b>7.0000e-004</b>	<b>4.9000e-004</b>	<b>5.5800e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7103</b>	<b>1.7103</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7113</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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0110</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</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	7.0000e-004	4.9000e-004	5.5800e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7103	1.7103	4.0000e-005	0.0000	1.7113
<b>Total</b>	<b>7.0000e-004</b>	<b>4.9000e-004</b>	<b>5.5800e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7103</b>	<b>1.7103</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7113</b>

### 3.7 Architectural Coating - 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					
Archit. Coating	0.2294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>0.2316</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</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	2.8000e-004	2.0000e-004	2.2300e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6841	0.6841	2.0000e-005	0.0000	0.6845
<b>Total</b>	<b>2.8000e-004</b>	<b>2.0000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6841</b>	<b>0.6841</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6845</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	0.2294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>0.2316</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</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	2.8000e-004	2.0000e-004	2.2300e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6841	0.6841	2.0000e-005	0.0000	0.6845
<b>Total</b>	<b>2.8000e-004</b>	<b>2.0000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6841</b>	<b>0.6841</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6845</b>



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1097	0.4801	1.5253	5.7600e-003	0.5176	4.2500e-003	0.5218	0.1386	3.9600e-003	0.1426	0.0000	530.4233	530.4233	0.0220	0.0000	530.9740
Unmitigated	0.1097	0.4801	1.5253	5.7600e-003	0.5176	4.2500e-003	0.5218	0.1386	3.9600e-003	0.1426	0.0000	530.4233	530.4233	0.0220	0.0000	530.9740

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	87.84	87.84	87.84	300,163	300,163
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,064,511	1,064,511
Total	399.36	399.36	399.36	1,364,674	1,364,674

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Single Family Housing	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	105.0748	105.0748	4.3400e-003	9.0000e-004	105.4507
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	105.0748	105.0748	4.3400e-003	9.0000e-004	105.4507
NaturalGas Mitigated	5.4200e-003	0.0463	0.0197	3.0000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003	0.0000	53.6134	53.6134	1.0300e-003	9.8000e-004	53.9320
NaturalGas Unmitigated	5.4200e-003	0.0463	0.0197	3.0000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003	0.0000	53.6134	53.6134	1.0300e-003	9.8000e-004	53.9320

## 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					
Apartments Low Rise	153115	8.3000e-004	7.0600e-003	3.0000e-003	5.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1708	8.1708	1.6000e-004	1.5000e-004	8.2194
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	851562	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003	0.0000	45.4426	45.4426	8.7000e-004	8.3000e-004	45.7126
<b>Total</b>		<b>5.4200e-003</b>	<b>0.0463</b>	<b>0.0197</b>	<b>3.0000e-004</b>		<b>3.7400e-003</b>	<b>3.7400e-003</b>		<b>3.7400e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>53.6134</b>	<b>53.6134</b>	<b>1.0300e-003</b>	<b>9.8000e-004</b>	<b>53.9320</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					
Apartments Low Rise	153115	8.3000e-004	7.0600e-003	3.0000e-003	5.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1708	8.1708	1.6000e-004	1.5000e-004	8.2194
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	851562	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003	0.0000	45.4426	45.4426	8.7000e-004	8.3000e-004	45.7126
<b>Total</b>		<b>5.4200e-003</b>	<b>0.0463</b>	<b>0.0197</b>	<b>3.0000e-004</b>		<b>3.7400e-003</b>	<b>3.7400e-003</b>		<b>3.7400e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>53.6134</b>	<b>53.6134</b>	<b>1.0300e-003</b>	<b>9.8000e-004</b>	<b>53.9320</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	49921.6	15.9061	6.6000e-004	1.4000e-004	15.9630
Parking Lot	15246	4.8577	2.0000e-004	4.0000e-005	4.8751
Single Family Housing	264612	84.3110	3.4800e-003	7.2000e-004	84.6126
<b>Total</b>		<b>105.0748</b>	<b>4.3400e-003</b>	<b>9.0000e-004</b>	<b>105.4507</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	49921.6	15.9061	6.6000e-004	1.4000e-004	15.9630
Parking Lot	15246	4.8577	2.0000e-004	4.0000e-005	4.8751
Single Family Housing	264612	84.3110	3.4800e-003	7.2000e-004	84.6126
<b>Total</b>		<b>105.0748</b>	<b>4.3400e-003</b>	<b>9.0000e-004</b>	<b>105.4507</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	0.2990	0.0147	0.4691	8.0000e-005		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	11.5643	11.5643	9.4000e-004	2.0000e-004	11.6468
Unmitigated	0.2990	0.0147	0.4691	8.0000e-005		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	11.5643	11.5643	9.4000e-004	2.0000e-004	11.6468

### 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	0.0229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0900e-003	9.3300e-003	3.9700e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.8062	10.8062	2.1000e-004	2.0000e-004	10.8704
Landscaping	0.0141	5.3700e-003	0.4651	2.0000e-005		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	0.7581	0.7581	7.3000e-004	0.0000	0.7764
<b>Total</b>	<b>0.2989</b>	<b>0.0147</b>	<b>0.4691</b>	<b>8.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>11.5642</b>	<b>11.5642</b>	<b>9.4000e-004</b>	<b>2.0000e-004</b>	<b>11.6468</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	0.0229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0900e-003	9.3300e-003	3.9700e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.8062	10.8062	2.1000e-004	2.0000e-004	10.8704
Landscaping	0.0141	5.3700e-003	0.4651	2.0000e-005		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	0.7581	0.7581	7.3000e-004	0.0000	0.7764
<b>Total</b>	<b>0.2989</b>	<b>0.0147</b>	<b>0.4691</b>	<b>8.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>11.5642</b>	<b>11.5642</b>	<b>9.4000e-004</b>	<b>2.0000e-004</b>	<b>11.6468</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.6372	0.0963	2.4200e-003	22.7648
Unmitigated	19.6372	0.0963	2.4200e-003	22.7648

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.781848 / 0.492904	5.2366	0.0257	6.4000e-004	6.0706
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.15008 / 1.35549	14.4006	0.0706	1.7700e-003	16.6942
<b>Total</b>		<b>19.6372</b>	<b>0.0963</b>	<b>2.4100e-003</b>	<b>22.7648</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.781848 / 0.492904	5.2366	0.0257	6.4000e-004	6.0706
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.15008 / 1.35549	14.4006	0.0706	1.7700e-003	16.6942
<b>Total</b>		<b>19.6372</b>	<b>0.0963</b>	<b>2.4100e-003</b>	<b>22.7648</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.9438	0.5286	0.0000	22.1578
Unmitigated	8.9438	0.5286	0.0000	22.1578

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	5.52	1.1205	0.0662	0.0000	2.7760
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
<b>Total</b>		<b>8.9438</b>	<b>0.5286</b>	<b>0.0000</b>	<b>22.1578</b>



## Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	5.52	1.1205	0.0662	0.0000	2.7760
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
<b>Total</b>		<b>8.9438</b>	<b>0.5286</b>	<b>0.0000</b>	<b>22.1578</b>

## 9.0 Operational Offroad

---

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

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

---

Cypress Place - Orange County, Summer

**Oxford Place**  
**Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.00	Acre	0.30	43,560.00	0
Apartments Low Rise	12.00	Dwelling Unit	1.50	12,000.00	34
Single Family Housing	33.00	Dwelling Unit	2.00	59,400.00	94

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Project specific info.

Demolition - Approximate building square footage from site plan.

Grading - Received from Client

Vehicle Trips - Trip Gen Source - LSA, 2017.

Woodstoves - Assuming compliance with SCAQMD Rule 445

Construction Off-road Equipment Mitigation - Assuming compliance with Rule 403

Off-road Equipment - Minimal site prep would be required as site is levelled with scanty vegetation. CalEEMod defaults are too conservative for the size and nature of the project site.

Off-road Equipment - Minimal site prep would be required as site is levelled. CalEEMod defaults are too conservative for the size and nature of the project site.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	5
tblFireplaces	NumberGas	10.20	12.00
tblFireplaces	NumberGas	28.05	33.00
tblFireplaces	NumberNoFireplace	1.20	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	0.60	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	AcresOfGrading	3.50	4.00
tblGrading	MaterialExported	0.00	6,625.00
tblLandUse	LotAcreage	1.00	0.30
tblLandUse	LotAcreage	0.75	1.50
tblLandUse	LotAcreage	10.71	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblVehicleTrips	ST_TR	7.16	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	6.07	7.32
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	6.59	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	0.60	0.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	0.60	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00





### 3.0 Construction Detail

---

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2019	2/28/2019	5	20	
2	Site Preparation	Site Preparation	3/1/2019	3/7/2019	5	5	
3	Grading	Grading	3/8/2019	3/19/2019	5	8	
4	Building Construction	Building Construction	3/20/2019	2/4/2020	5	230	
5	Paving	Paving	2/5/2020	2/28/2020	5	18	
6	Architectural Coating	Architectural Coating	2/29/2020	3/25/2020	5	18	

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

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0.3**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	7.00	158	0.38
Grading	Graders	1	7.00	187	0.41
Grading	Rubber Tired Dozers	1	7.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48



**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	159.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	0.00	655.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	39.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 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					1.7226	0.0000	1.7226	0.2608	0.0000	0.2608			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>1.7226</b>	<b>1.7949</b>	<b>3.5175</b>	<b>0.2608</b>	<b>1.6697</b>	<b>1.9305</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</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	0.0661	2.3565	0.5649	6.1700e-003	0.1384	9.0500e-003	0.1475	0.0379	8.6600e-003	0.0466		685.7452	685.7452	0.0716		687.5349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.1279</b>	<b>2.3970</b>	<b>1.1000</b>	<b>7.8600e-003</b>	<b>0.3061</b>	<b>0.0102</b>	<b>0.3163</b>	<b>0.0824</b>	<b>9.6900e-003</b>	<b>0.0921</b>		<b>854.6663</b>	<b>854.6663</b>	<b>0.0757</b>		<b>856.5598</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					0.7752	0.0000	0.7752	0.1174	0.0000	0.1174			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.7752</b>	<b>1.7949</b>	<b>2.5701</b>	<b>0.1174</b>	<b>1.6697</b>	<b>1.7870</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</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	0.0661	2.3565	0.5649	6.1700e-003	0.1384	9.0500e-003	0.1475	0.0379	8.6600e-003	0.0466		685.7452	685.7452	0.0716		687.5349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.1279</b>	<b>2.3970</b>	<b>1.1000</b>	<b>7.8600e-003</b>	<b>0.3061</b>	<b>0.0102</b>	<b>0.3163</b>	<b>0.0824</b>	<b>9.6900e-003</b>	<b>0.0921</b>		<b>854.6663</b>	<b>854.6663</b>	<b>0.0757</b>		<b>856.5598</b>

**3.3 Site Preparation - 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					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653			0.0000			0.0000
Off-Road	2.0511	21.6177	9.8802	0.0175		1.1172	1.1172		1.0278	1.0278		1,729.4555	1,729.4555	0.5472		1,743.1351
<b>Total</b>	<b>2.0511</b>	<b>21.6177</b>	<b>9.8802</b>	<b>0.0175</b>	<b>9.0331</b>	<b>1.1172</b>	<b>10.1503</b>	<b>4.9653</b>	<b>1.0278</b>	<b>5.9931</b>		<b>1,729.4555</b>	<b>1,729.4555</b>	<b>0.5472</b>		<b>1,743.1351</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	0.0742	0.0486	0.6421	2.0300e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		202.7053	202.7053	4.9800e-003		202.8298
<b>Total</b>	<b>0.0742</b>	<b>0.0486</b>	<b>0.6421</b>	<b>2.0300e-003</b>	<b>0.2012</b>	<b>1.3400e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.2400e-003</b>	<b>0.0546</b>		<b>202.7053</b>	<b>202.7053</b>	<b>4.9800e-003</b>		<b>202.8298</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0649	0.0000	4.0649	2.2344	0.0000	2.2344			0.0000			0.0000
Off-Road	2.0511	21.6177	9.8802	0.0175		1.1172	1.1172		1.0278	1.0278	0.0000	1,729.4555	1,729.4555	0.5472		1,743.1351
<b>Total</b>	<b>2.0511</b>	<b>21.6177</b>	<b>9.8802</b>	<b>0.0175</b>	<b>4.0649</b>	<b>1.1172</b>	<b>5.1821</b>	<b>2.2344</b>	<b>1.0278</b>	<b>3.2622</b>	<b>0.0000</b>	<b>1,729.4555</b>	<b>1,729.4555</b>	<b>0.5472</b>		<b>1,743.1351</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	0.0742	0.0486	0.6421	2.0300e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		202.7053	202.7053	4.9800e-003		202.8298
<b>Total</b>	<b>0.0742</b>	<b>0.0486</b>	<b>0.6421</b>	<b>2.0300e-003</b>	<b>0.2012</b>	<b>1.3400e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.2400e-003</b>	<b>0.0546</b>		<b>202.7053</b>	<b>202.7053</b>	<b>4.9800e-003</b>		<b>202.8298</b>

**3.4 Grading - 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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.8505	20.7141	10.2270	0.0205		0.9496	0.9496		0.8737	0.8737		2,031.5077	2,031.5077	0.6428		2,047.5764
<b>Total</b>	<b>1.8505</b>	<b>20.7141</b>	<b>10.2270</b>	<b>0.0205</b>	<b>5.7996</b>	<b>0.9496</b>	<b>6.7492</b>	<b>2.9537</b>	<b>0.8737</b>	<b>3.8274</b>		<b>2,031.5077</b>	<b>2,031.5077</b>	<b>0.6428</b>		<b>2,047.5764</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	0.6806	24.2690	5.8181	0.0635	1.4257	0.0932	1.5189	0.3903	0.0892	0.4795		7,062.3134	7,062.3134	0.7373		7,080.7448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.7424</b>	<b>24.3095</b>	<b>6.3532</b>	<b>0.0652</b>	<b>1.5934</b>	<b>0.0943</b>	<b>1.6877</b>	<b>0.4348</b>	<b>0.0902</b>	<b>0.5250</b>		<b>7,231.2344</b>	<b>7,231.2344</b>	<b>0.7414</b>		<b>7,249.7697</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					2.6098	0.0000	2.6098	1.3292	0.0000	1.3292			0.0000			0.0000
Off-Road	1.8505	20.7141	10.2270	0.0205		0.9496	0.9496		0.8737	0.8737	0.0000	2,031.5077	2,031.5077	0.6428		2,047.5764
<b>Total</b>	<b>1.8505</b>	<b>20.7141</b>	<b>10.2270</b>	<b>0.0205</b>	<b>2.6098</b>	<b>0.9496</b>	<b>3.5594</b>	<b>1.3292</b>	<b>0.8737</b>	<b>2.2028</b>	<b>0.0000</b>	<b>2,031.5077</b>	<b>2,031.5077</b>	<b>0.6428</b>		<b>2,047.5764</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	0.6806	24.2690	5.8181	0.0635	1.4257	0.0932	1.5189	0.3903	0.0892	0.4795		7,062.3134	7,062.3134	0.7373		7,080.7448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.7424</b>	<b>24.3095</b>	<b>6.3532</b>	<b>0.0652</b>	<b>1.5934</b>	<b>0.0943</b>	<b>1.6877</b>	<b>0.4348</b>	<b>0.0902</b>	<b>0.5250</b>		<b>7,231.2344</b>	<b>7,231.2344</b>	<b>0.7414</b>		<b>7,249.7697</b>

**3.5 Building Construction - 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					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</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	0.0450	1.3618	0.3600	3.0100e-003	0.0767	9.2000e-003	0.0859	0.0221	8.8000e-003	0.0309		327.5626	327.5626	0.0277			328.2540
Worker	0.1607	0.1054	1.3913	4.4100e-003	0.4359	2.9100e-003	0.4388	0.1156	2.6800e-003	0.1183		439.1947	439.1947	0.0108			439.4647
<b>Total</b>	<b>0.2057</b>	<b>1.4672</b>	<b>1.7513</b>	<b>7.4200e-003</b>	<b>0.5126</b>	<b>0.0121</b>	<b>0.5247</b>	<b>0.1377</b>	<b>0.0115</b>	<b>0.1492</b>		<b>766.7574</b>	<b>766.7574</b>	<b>0.0385</b>			<b>767.7186</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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313			2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>			<b>2,607.3635</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	0.0450	1.3618	0.3600	3.0100e-003	0.0767	9.2000e-003	0.0859	0.0221	8.8000e-003	0.0309		327.5626	327.5626	0.0277			328.2540
Worker	0.1607	0.1054	1.3913	4.4100e-003	0.4359	2.9100e-003	0.4388	0.1156	2.6800e-003	0.1183		439.1947	439.1947	0.0108			439.4647
<b>Total</b>	<b>0.2057</b>	<b>1.4672</b>	<b>1.7513</b>	<b>7.4200e-003</b>	<b>0.5126</b>	<b>0.0121</b>	<b>0.5247</b>	<b>0.1377</b>	<b>0.0115</b>	<b>0.1492</b>		<b>766.7574</b>	<b>766.7574</b>	<b>0.0385</b>			<b>767.7186</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229			2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>			<b>2,568.6345</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	0.0383	1.2501	0.3300	2.9900e-003	0.0767	6.5200e-003	0.0832	0.0221	6.2400e-003	0.0283		325.3547	325.3547	0.0263		326.0126
Worker	0.1499	0.0944	1.2766	4.2600e-003	0.4359	2.8800e-003	0.4388	0.1156	2.6500e-003	0.1183		425.1170	425.1170	9.6900e-003		425.3593
<b>Total</b>	<b>0.1882</b>	<b>1.3446</b>	<b>1.6065</b>	<b>7.2500e-003</b>	<b>0.5126</b>	<b>9.4000e-003</b>	<b>0.5220</b>	<b>0.1377</b>	<b>8.8900e-003</b>	<b>0.1466</b>		<b>750.4717</b>	<b>750.4717</b>	<b>0.0360</b>		<b>751.3719</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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</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	0.0383	1.2501	0.3300	2.9900e-003	0.0767	6.5200e-003	0.0832	0.0221	6.2400e-003	0.0283		325.3547	325.3547	0.0263			326.0126
Worker	0.1499	0.0944	1.2766	4.2600e-003	0.4359	2.8800e-003	0.4388	0.1156	2.6500e-003	0.1183		425.1170	425.1170	9.6900e-003			425.3593
<b>Total</b>	<b>0.1882</b>	<b>1.3446</b>	<b>1.6065</b>	<b>7.2500e-003</b>	<b>0.5126</b>	<b>9.4000e-003</b>	<b>0.5220</b>	<b>0.1377</b>	<b>8.8900e-003</b>	<b>0.1466</b>		<b>750.4717</b>	<b>750.4717</b>	<b>0.0360</b>			<b>751.3719</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670			1,818.8830
Paving	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2274</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>		<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>			<b>1,818.8830</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	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
<b>Total</b>	<b>0.0769</b>	<b>0.0484</b>	<b>0.6547</b>	<b>2.1900e-003</b>	<b>0.2236</b>	<b>1.4800e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3600e-003</b>	<b>0.0607</b>		<b>218.0087</b>	<b>218.0087</b>	<b>4.9700e-003</b>		<b>218.1330</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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2274</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>	<b>0.0000</b>	<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</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	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
<b>Total</b>	<b>0.0769</b>	<b>0.0484</b>	<b>0.6547</b>	<b>2.1900e-003</b>	<b>0.2236</b>	<b>1.4800e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3600e-003</b>	<b>0.0607</b>		<b>218.0087</b>	<b>218.0087</b>	<b>4.9700e-003</b>		<b>218.1330</b>

**3.7 Architectural Coating - 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					
Archit. Coating	25.4935					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>25.7357</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.0307</b>	<b>0.0194</b>	<b>0.2619</b>	<b>8.7000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>87.2035</b>	<b>87.2035</b>	<b>1.9900e-003</b>		<b>87.2532</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	25.4935					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>25.7357</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.0307</b>	<b>0.0194</b>	<b>0.2619</b>	<b>8.7000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>87.2035</b>	<b>87.2035</b>	<b>1.9900e-003</b>		<b>87.2532</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6302	2.5160	8.6578	0.0327	2.8947	0.0234	2.9180	0.7741	0.0217	0.7958		3,321.2955	3,321.2955	0.1344		3,324.6547
Unmitigated	0.6302	2.5160	8.6578	0.0327	2.8947	0.0234	2.9180	0.7741	0.0217	0.7958		3,321.2955	3,321.2955	0.1344		3,324.6547

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	87.84	87.84	87.84	300,163	300,163
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,064,511	1,064,511
Total	399.36	399.36	399.36	1,364,674	1,364,674

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Single Family Housing	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966



## 5.0 Energy Detail

---

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

---

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526
NaturalGas Unmitigated	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526

## 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						
Apartments Low Rise	419.493	4.5200e-003	0.0387	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003			49.3522	49.3522	9.5000e-004	9.0000e-004	49.6454
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2333.05	0.0252	0.2150	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.4761	274.4761	5.2600e-003	5.0300e-003	276.1072
<b>Total</b>		<b>0.0297</b>	<b>0.2537</b>	<b>0.1079</b>	<b>1.6200e-003</b>		<b>0.0205</b>	<b>0.0205</b>		<b>0.0205</b>	<b>0.0205</b>			<b>323.8282</b>	<b>323.8282</b>	<b>6.2100e-003</b>	<b>5.9300e-003</b>	<b>325.7526</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Low Rise	0.419493	4.5200e-003	0.0387	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003			49.3522	49.3522	9.5000e-004	9.0000e-004	49.6454
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.33305	0.0252	0.2150	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.4761	274.4761	5.2600e-003	5.0300e-003	276.1072
<b>Total</b>		<b>0.0297</b>	<b>0.2537</b>	<b>0.1079</b>	<b>1.6200e-003</b>		<b>0.0205</b>	<b>0.0205</b>		<b>0.0205</b>	<b>0.0205</b>			<b>323.8282</b>	<b>323.8282</b>	<b>6.2100e-003</b>	<b>5.9300e-003</b>	<b>325.7526</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511
Unmitigated	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511

## 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	0.1257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0874	0.7465	0.3177	4.7600e-003		0.0604	0.0604		0.0604	0.0604	0.0000	952.9412	952.9412	0.0183	0.0175	958.6040
Landscaping	0.1127	0.0430	3.7207	2.0000e-004		0.0205	0.0205		0.0205	0.0205		6.6851	6.6851	6.4800e-003		6.8470
<b>Total</b>	<b>1.7550</b>	<b>0.7894</b>	<b>4.0384</b>	<b>4.9600e-003</b>		<b>0.0809</b>	<b>0.0809</b>		<b>0.0809</b>	<b>0.0809</b>	<b>0.0000</b>	<b>959.6263</b>	<b>959.6263</b>	<b>0.0247</b>	<b>0.0175</b>	<b>965.4511</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	0.1257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0874	0.7465	0.3177	4.7600e-003		0.0604	0.0604		0.0604	0.0604	0.0000	952.9412	952.9412	0.0183	0.0175	958.6040
Landscaping	0.1127	0.0430	3.7207	2.0000e-004		0.0205	0.0205		0.0205	0.0205		6.6851	6.6851	6.4800e-003		6.8470
<b>Total</b>	<b>1.7550</b>	<b>0.7894</b>	<b>4.0384</b>	<b>4.9600e-003</b>		<b>0.0809</b>	<b>0.0809</b>		<b>0.0809</b>	<b>0.0809</b>	<b>0.0000</b>	<b>959.6263</b>	<b>959.6263</b>	<b>0.0247</b>	<b>0.0175</b>	<b>965.4511</b>

## 7.0 Water Detail

---

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

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

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

---

Cypress Place - Orange County, Winter

**Oxford Place  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.00	Acre	0.30	43,560.00	0
Apartments Low Rise	12.00	Dwelling Unit	1.50	12,000.00	34
Single Family Housing	33.00	Dwelling Unit	2.00	59,400.00	94

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Project specific info.
- Demolition - Approximate building square footage from site plan.
- Grading - Received from Client
- Vehicle Trips - Trip Gen Source - LSA, 2017.
- Woodstoves - Assuming compliance with SCAQMD Rule 445

Construction Off-road Equipment Mitigation - Assuming compliance with Rule 403

Off-road Equipment - Minimal site prep would be required as site is levelled with scanty vegetation. CalEEMod defaults are too conservative for the size and nature of the project site.

Off-road Equipment - Minimal site prep would be required as site is levelled. CalEEMod defaults are too conservative for the size and nature of the project site.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	5
tblFireplaces	NumberGas	10.20	12.00
tblFireplaces	NumberGas	28.05	33.00
tblFireplaces	NumberNoFireplace	1.20	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	0.60	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	AcresOfGrading	3.50	4.00
tblGrading	MaterialExported	0.00	6,625.00
tblLandUse	LotAcreage	1.00	0.30
tblLandUse	LotAcreage	0.75	1.50
tblLandUse	LotAcreage	10.71	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblVehicleTrips	ST_TR	7.16	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	6.07	7.32

tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	6.59	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	0.60	0.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	0.60	0.00
tblWoodstoves	NumberNoncatalytic	1.65	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					
2019	3.6509	45.3467	23.1535	0.0847	9.2343	1.8053	10.3528	5.0187	1.6796	6.0477	0.0000	9,149.0331	9,149.0331	1.4029	0.0000	9,184.1059
2020	25.7705	20.5395	18.3901	0.0339	0.5126	1.1266	1.6392	0.1377	1.0593	1.1970	0.0000	3,272.7546	3,272.7546	0.6597	0.0000	3,289.2465
<b>Maximum</b>	<b>25.7705</b>	<b>45.3467</b>	<b>23.1535</b>	<b>0.0847</b>	<b>9.2343</b>	<b>1.8053</b>	<b>10.3528</b>	<b>5.0187</b>	<b>1.6796</b>	<b>6.0477</b>	<b>0.0000</b>	<b>9,149.0331</b>	<b>9,149.0331</b>	<b>1.4029</b>	<b>0.0000</b>	<b>9,184.1059</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					
2019	3.6509	45.3467	23.1535	0.0847	4.2661	1.8053	5.3846	2.2878	1.6796	3.3168	0.0000	9,149.0331	9,149.0331	1.4029	0.0000	9,184.1059
2020	25.7705	20.5395	18.3901	0.0339	0.5126	1.1266	1.6392	0.1377	1.0593	1.1970	0.0000	3,272.7546	3,272.7546	0.6597	0.0000	3,289.2465
<b>Maximum</b>	<b>25.7705</b>	<b>45.3467</b>	<b>23.1535</b>	<b>0.0847</b>	<b>4.2661</b>	<b>1.8053</b>	<b>5.3846</b>	<b>2.2878</b>	<b>1.6796</b>	<b>3.3168</b>	<b>0.0000</b>	<b>9,149.0331</b>	<b>9,149.0331</b>	<b>1.4029</b>	<b>0.0000</b>	<b>9,184.1059</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>50.97</b>	<b>0.00</b>	<b>41.43</b>	<b>52.96</b>	<b>0.00</b>	<b>37.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511
Energy	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526
Mobile	0.6199	2.5924	8.2654	0.0313	2.8947	0.0235	2.9181	0.7741	0.0218	0.7959		3,173.8705	3,173.8705	0.1337		3,177.2139
<b>Total</b>	<b>2.4045</b>	<b>3.6355</b>	<b>12.4117</b>	<b>0.0378</b>	<b>2.8947</b>	<b>0.1248</b>	<b>3.0195</b>	<b>0.7741</b>	<b>0.1232</b>	<b>0.8973</b>	<b>0.0000</b>	<b>4,457.3250</b>	<b>4,457.3250</b>	<b>0.1647</b>	<b>0.0234</b>	<b>4,468.4175</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511
Energy	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526
Mobile	0.6199	2.5924	8.2654	0.0313	2.8947	0.0235	2.9181	0.7741	0.0218	0.7959		3,173.8705	3,173.8705	0.1337		3,177.2139
<b>Total</b>	<b>2.4045</b>	<b>3.6355</b>	<b>12.4117</b>	<b>0.0378</b>	<b>2.8947</b>	<b>0.1248</b>	<b>3.0195</b>	<b>0.7741</b>	<b>0.1232</b>	<b>0.8973</b>	<b>0.0000</b>	<b>4,457.3250</b>	<b>4,457.3250</b>	<b>0.1647</b>	<b>0.0234</b>	<b>4,468.4175</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2019	2/28/2019	5	20	
2	Site Preparation	Site Preparation	3/1/2019	3/7/2019	5	5	
3	Grading	Grading	3/8/2019	3/19/2019	5	8	
4	Building Construction	Building Construction	3/20/2019	2/4/2020	5	230	
5	Paving	Paving	2/5/2020	2/28/2020	5	18	
6	Architectural Coating	Architectural Coating	2/29/2020	3/25/2020	5	18	

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

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0.3**

Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	7.00	158	0.38
Grading	Graders	1	7.00	187	0.41
Grading	Rubber Tired Dozers	1	7.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	159.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	0.00	655.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	39.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 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					1.7226	0.0000	1.7226	0.2608	0.0000	0.2608			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>1.7226</b>	<b>1.7949</b>	<b>3.5175</b>	<b>0.2608</b>	<b>1.6697</b>	<b>1.9305</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</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	0.0678	2.3875	0.5981	6.0800e-003	0.1384	9.2500e-003	0.1477	0.0379	8.8500e-003	0.0468		675.5834	675.5834	0.0734		677.4191
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003		159.9645
<b>Total</b>	<b>0.1376</b>	<b>2.4320</b>	<b>1.0935</b>	<b>7.6800e-003</b>	<b>0.3061</b>	<b>0.0104</b>	<b>0.3165</b>	<b>0.0824</b>	<b>9.8800e-003</b>	<b>0.0923</b>		<b>835.4495</b>	<b>835.4495</b>	<b>0.0774</b>		<b>837.3837</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					0.7752	0.0000	0.7752	0.1174	0.0000	0.1174			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.7752</b>	<b>1.7949</b>	<b>2.5701</b>	<b>0.1174</b>	<b>1.6697</b>	<b>1.7870</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</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	0.0678	2.3875	0.5981	6.0800e-003	0.1384	9.2500e-003	0.1477	0.0379	8.8500e-003	0.0468		675.5834	675.5834	0.0734		677.4191
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003		159.9645
<b>Total</b>	<b>0.1376</b>	<b>2.4320</b>	<b>1.0935</b>	<b>7.6800e-003</b>	<b>0.3061</b>	<b>0.0104</b>	<b>0.3165</b>	<b>0.0824</b>	<b>9.8800e-003</b>	<b>0.0923</b>		<b>835.4495</b>	<b>835.4495</b>	<b>0.0774</b>		<b>837.3837</b>

**3.3 Site Preparation - 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					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653			0.0000			0.0000
Off-Road	2.0511	21.6177	9.8802	0.0175		1.1172	1.1172		1.0278	1.0278		1,729.4555	1,729.4555	0.5472		1,743.1351
<b>Total</b>	<b>2.0511</b>	<b>21.6177</b>	<b>9.8802</b>	<b>0.0175</b>	<b>9.0331</b>	<b>1.1172</b>	<b>10.1503</b>	<b>4.9653</b>	<b>1.0278</b>	<b>5.9931</b>		<b>1,729.4555</b>	<b>1,729.4555</b>	<b>0.5472</b>		<b>1,743.1351</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	0.0837	0.0535	0.5945	1.9200e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		191.8393	191.8393	4.7300e-003		191.9574
<b>Total</b>	<b>0.0837</b>	<b>0.0535</b>	<b>0.5945</b>	<b>1.9200e-003</b>	<b>0.2012</b>	<b>1.3400e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.2400e-003</b>	<b>0.0546</b>		<b>191.8393</b>	<b>191.8393</b>	<b>4.7300e-003</b>		<b>191.9574</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0649	0.0000	4.0649	2.2344	0.0000	2.2344			0.0000			0.0000
Off-Road	2.0511	21.6177	9.8802	0.0175		1.1172	1.1172		1.0278	1.0278	0.0000	1,729.4555	1,729.4555	0.5472		1,743.1351
<b>Total</b>	<b>2.0511</b>	<b>21.6177</b>	<b>9.8802</b>	<b>0.0175</b>	<b>4.0649</b>	<b>1.1172</b>	<b>5.1821</b>	<b>2.2344</b>	<b>1.0278</b>	<b>3.2622</b>	<b>0.0000</b>	<b>1,729.4555</b>	<b>1,729.4555</b>	<b>0.5472</b>		<b>1,743.1351</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	0.0837	0.0535	0.5945	1.9200e-003	0.2012	1.3400e-003	0.2025	0.0534	1.2400e-003	0.0546		191.8393	191.8393	4.7300e-003		191.9574
<b>Total</b>	<b>0.0837</b>	<b>0.0535</b>	<b>0.5945</b>	<b>1.9200e-003</b>	<b>0.2012</b>	<b>1.3400e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.2400e-003</b>	<b>0.0546</b>		<b>191.8393</b>	<b>191.8393</b>	<b>4.7300e-003</b>		<b>191.9574</b>

**3.4 Grading - 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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.8505	20.7141	10.2270	0.0205		0.9496	0.9496		0.8737	0.8737		2,031.5077	2,031.5077	0.6428		2,047.5764
<b>Total</b>	<b>1.8505</b>	<b>20.7141</b>	<b>10.2270</b>	<b>0.0205</b>	<b>5.7996</b>	<b>0.9496</b>	<b>6.7492</b>	<b>2.9537</b>	<b>0.8737</b>	<b>3.8274</b>		<b>2,031.5077</b>	<b>2,031.5077</b>	<b>0.6428</b>		<b>2,047.5764</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	0.6984	24.5880	6.1593	0.0626	1.4257	0.0953	1.5209	0.3903	0.0911	0.4814		6,957.6594	6,957.6594	0.7562		6,976.5650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003		159.9645
<b>Total</b>	<b>0.7681</b>	<b>24.6326</b>	<b>6.6548</b>	<b>0.0642</b>	<b>1.5934</b>	<b>0.0964</b>	<b>1.6897</b>	<b>0.4348</b>	<b>0.0922</b>	<b>0.5269</b>		<b>7,117.5254</b>	<b>7,117.5254</b>	<b>0.7602</b>		<b>7,136.5295</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					2.6098	0.0000	2.6098	1.3292	0.0000	1.3292			0.0000			0.0000
Off-Road	1.8505	20.7141	10.2270	0.0205		0.9496	0.9496		0.8737	0.8737	0.0000	2,031.5077	2,031.5077	0.6428		2,047.5764
<b>Total</b>	<b>1.8505</b>	<b>20.7141</b>	<b>10.2270</b>	<b>0.0205</b>	<b>2.6098</b>	<b>0.9496</b>	<b>3.5594</b>	<b>1.3292</b>	<b>0.8737</b>	<b>2.2028</b>	<b>0.0000</b>	<b>2,031.5077</b>	<b>2,031.5077</b>	<b>0.6428</b>		<b>2,047.5764</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	0.6984	24.5880	6.1593	0.0626	1.4257	0.0953	1.5209	0.3903	0.0911	0.4814		6,957.6594	6,957.6594	0.7562		6,976.5650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003		159.9645
<b>Total</b>	<b>0.7681</b>	<b>24.6326</b>	<b>6.6548</b>	<b>0.0642</b>	<b>1.5934</b>	<b>0.0964</b>	<b>1.6897</b>	<b>0.4348</b>	<b>0.0922</b>	<b>0.5269</b>		<b>7,117.5254</b>	<b>7,117.5254</b>	<b>0.7602</b>		<b>7,136.5295</b>

**3.5 Building Construction - 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					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</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	0.0469	1.3632	0.3952	2.9400e-003	0.0767	9.3700e-003	0.0861	0.0221	8.9600e-003	0.0310		319.6262	319.6262	0.0291		320.3539
Worker	0.1813	0.1158	1.2881	4.1700e-003	0.4359	2.9100e-003	0.4388	0.1156	2.6800e-003	0.1183		415.6517	415.6517	0.0102		415.9078
<b>Total</b>	<b>0.2282</b>	<b>1.4790</b>	<b>1.6833</b>	<b>7.1100e-003</b>	<b>0.5126</b>	<b>0.0123</b>	<b>0.5249</b>	<b>0.1377</b>	<b>0.0116</b>	<b>0.1493</b>		<b>735.2779</b>	<b>735.2779</b>	<b>0.0394</b>		<b>736.2617</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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</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	0.0469	1.3632	0.3952	2.9400e-003	0.0767	9.3700e-003	0.0861	0.0221	8.9600e-003	0.0310		319.6262	319.6262	0.0291			320.3539
Worker	0.1813	0.1158	1.2881	4.1700e-003	0.4359	2.9100e-003	0.4388	0.1156	2.6800e-003	0.1183		415.6517	415.6517	0.0102			415.9078
<b>Total</b>	<b>0.2282</b>	<b>1.4790</b>	<b>1.6833</b>	<b>7.1100e-003</b>	<b>0.5126</b>	<b>0.0123</b>	<b>0.5249</b>	<b>0.1377</b>	<b>0.0116</b>	<b>0.1493</b>		<b>735.2779</b>	<b>735.2779</b>	<b>0.0394</b>			<b>736.2617</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229			2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>			<b>2,568.6345</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	0.0400	1.2497	0.3617	2.9200e-003	0.0767	6.6300e-003	0.0833	0.0221	6.3500e-003	0.0284		317.3593	317.3593	0.0276		318.0503
Worker	0.1694	0.1038	1.1799	4.0300e-003	0.4359	2.8800e-003	0.4388	0.1156	2.6500e-003	0.1183		402.3323	402.3323	9.1800e-003		402.5617
<b>Total</b>	<b>0.2094</b>	<b>1.3535</b>	<b>1.5416</b>	<b>6.9500e-003</b>	<b>0.5126</b>	<b>9.5100e-003</b>	<b>0.5221</b>	<b>0.1377</b>	<b>9.0000e-003</b>	<b>0.1467</b>		<b>719.6915</b>	<b>719.6915</b>	<b>0.0368</b>		<b>720.6120</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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</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	0.0400	1.2497	0.3617	2.9200e-003	0.0767	6.6300e-003	0.0833	0.0221	6.3500e-003	0.0284		317.3593	317.3593	0.0276			318.0503
Worker	0.1694	0.1038	1.1799	4.0300e-003	0.4359	2.8800e-003	0.4388	0.1156	2.6500e-003	0.1183		402.3323	402.3323	9.1800e-003			402.5617
<b>Total</b>	<b>0.2094</b>	<b>1.3535</b>	<b>1.5416</b>	<b>6.9500e-003</b>	<b>0.5126</b>	<b>9.5100e-003</b>	<b>0.5221</b>	<b>0.1377</b>	<b>9.0000e-003</b>	<b>0.1467</b>		<b>719.6915</b>	<b>719.6915</b>	<b>0.0368</b>			<b>720.6120</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670			1,818.8830
Paving	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2274</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>		<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>			<b>1,818.8830</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	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
<b>Total</b>	<b>0.0869</b>	<b>0.0532</b>	<b>0.6051</b>	<b>2.0700e-003</b>	<b>0.2236</b>	<b>1.4800e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3600e-003</b>	<b>0.0607</b>		<b>206.3242</b>	<b>206.3242</b>	<b>4.7100e-003</b>		<b>206.4419</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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2274</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>	<b>0.0000</b>	<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</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	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
<b>Total</b>	<b>0.0869</b>	<b>0.0532</b>	<b>0.6051</b>	<b>2.0700e-003</b>	<b>0.2236</b>	<b>1.4800e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3600e-003</b>	<b>0.0607</b>		<b>206.3242</b>	<b>206.3242</b>	<b>4.7100e-003</b>		<b>206.4419</b>

**3.7 Architectural Coating - 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					
Archit. Coating	25.4935					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>25.7357</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.0347</b>	<b>0.0213</b>	<b>0.2420</b>	<b>8.3000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>82.5297</b>	<b>82.5297</b>	<b>1.8800e-003</b>		<b>82.5768</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	25.4935					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>25.7357</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.0347</b>	<b>0.0213</b>	<b>0.2420</b>	<b>8.3000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>82.5297</b>	<b>82.5297</b>	<b>1.8800e-003</b>		<b>82.5768</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6199	2.5924	8.2654	0.0313	2.8947	0.0235	2.9181	0.7741	0.0218	0.7959		3,173.8705	3,173.8705	0.1337		3,177.2139
Unmitigated	0.6199	2.5924	8.2654	0.0313	2.8947	0.0235	2.9181	0.7741	0.0218	0.7959		3,173.8705	3,173.8705	0.1337		3,177.2139

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	87.84	87.84	87.84	300,163	300,163
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,064,511	1,064,511
Total	399.36	399.36	399.36	1,364,674	1,364,674

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Single Family Housing	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

#### 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526
NaturalGas Unmitigated	0.0297	0.2537	0.1079	1.6200e-003		0.0205	0.0205		0.0205	0.0205		323.8282	323.8282	6.2100e-003	5.9400e-003	325.7526

## 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					
Apartments Low Rise	419.493	4.5200e-003	0.0387	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003		49.3522	49.3522	9.5000e-004	9.0000e-004	49.6454
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2333.05	0.0252	0.2150	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174		274.4761	274.4761	5.2600e-003	5.0300e-003	276.1072
<b>Total</b>		<b>0.0297</b>	<b>0.2537</b>	<b>0.1079</b>	<b>1.6200e-003</b>		<b>0.0205</b>	<b>0.0205</b>		<b>0.0205</b>	<b>0.0205</b>		<b>323.8282</b>	<b>323.8282</b>	<b>6.2100e-003</b>	<b>5.9300e-003</b>	<b>325.7526</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						
Apartments Low Rise	0.419493	4.5200e-003	0.0387	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003			49.3522	49.3522	9.5000e-004	9.0000e-004	49.6454
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.33305	0.0252	0.2150	0.0915	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.4761	274.4761	5.2600e-003	5.0300e-003	276.1072
<b>Total</b>		<b>0.0297</b>	<b>0.2537</b>	<b>0.1079</b>	<b>1.6200e-003</b>		<b>0.0205</b>	<b>0.0205</b>		<b>0.0205</b>	<b>0.0205</b>			<b>323.8282</b>	<b>323.8282</b>	<b>6.2100e-003</b>	<b>5.9300e-003</b>	<b>325.7526</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511
Unmitigated	1.7550	0.7894	4.0384	4.9600e-003		0.0809	0.0809		0.0809	0.0809	0.0000	959.6263	959.6263	0.0247	0.0175	965.4511

## 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	0.1257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0874	0.7465	0.3177	4.7600e-003		0.0604	0.0604		0.0604	0.0604	0.0000	952.9412	952.9412	0.0183	0.0175	958.6040
Landscaping	0.1127	0.0430	3.7207	2.0000e-004		0.0205	0.0205		0.0205	0.0205		6.6851	6.6851	6.4800e-003		6.8470
<b>Total</b>	<b>1.7550</b>	<b>0.7894</b>	<b>4.0384</b>	<b>4.9600e-003</b>		<b>0.0809</b>	<b>0.0809</b>		<b>0.0809</b>	<b>0.0809</b>	<b>0.0000</b>	<b>959.6263</b>	<b>959.6263</b>	<b>0.0247</b>	<b>0.0175</b>	<b>965.4511</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	0.1257					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4292					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0874	0.7465	0.3177	4.7600e-003		0.0604	0.0604		0.0604	0.0604	0.0000	952.9412	952.9412	0.0183	0.0175	958.6040
Landscaping	0.1127	0.0430	3.7207	2.0000e-004		0.0205	0.0205		0.0205	0.0205		6.6851	6.6851	6.4800e-003		6.8470
<b>Total</b>	<b>1.7550</b>	<b>0.7894</b>	<b>4.0384</b>	<b>4.9600e-003</b>		<b>0.0809</b>	<b>0.0809</b>		<b>0.0809</b>	<b>0.0809</b>	<b>0.0000</b>	<b>959.6263</b>	<b>959.6263</b>	<b>0.0247</b>	<b>0.0175</b>	<b>965.4511</b>

## 7.0 Water Detail

---

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

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

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

---