

**Summary Book**

Air Quality

<b>Total Air Emissions Estimate</b>		Pollutant (lbs/day)					
		ROG	NOx	CO	SO2	PM10	PM2.5
Summer	Construction	54.094	45.622	22.620	0.040	9.585	6.112
	Area	82.970	1.635	104.510	0.182	14.062	14.062
	Energy	0.027	0.227	0.096	0.001	0.018	0.018
	Mobile	0.743	2.823	7.348	0.023	1.827	0.503
Winter	Construction	54.115	45.628	22.589	0.040	9.585	6.112
	Area	82.970	1.635	104.510	0.182	14.062	14.062
	Energy	0.027	0.227	0.096	0.001	0.018	0.018
	Mobile	0.722	2.888	7.429	0.022	1.827	0.504

<b>Air Quality Emissions Estimate</b>		Pollutant (lbs/day)					
		ROG	NOx	CO	SO2	PM10	PM2.5
Maximum Daily Construction Emissions		<b>54</b>	<b>46</b>	<b>23</b>	<b>0</b>	<b>10</b>	<b>6</b>
Maximum Daily Operation Emissions		<b>84</b>	<b>5</b>	<b>112</b>	<b>0</b>	<b>16</b>	<b>15</b>

Prospect Estates II - Total Project Emissions - San Diego Air Basin, Summer

**Prospect Estates II - Total Project Emissions  
San Diego Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	15.00	Dwelling Unit	4.87	27,000.00	43
Condo/Townhouse	38.00	Dwelling Unit	0.00	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	432.29	<b>CH4 Intensity (lb/MW hr)</b>	0.017	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - In 2017 SDG&E had already achieved 2020 RPS goals. Energy intensity factor revised to account for 46.3 percent renewables procurement.

Land Use - Project description

Construction Phase - Architectural coatings would be applied during the last month of building construction.

Architectural Coating - SDAPCD regulations.

Vehicle Trips - Trip generation rate from project Trip Generation Analysis. Average trip length within San Diego County.

Area Coating - SDAPCD regulations.

Construction Off-road Equipment Mitigation - Standard practices for compliance with SDAPCD fugitive dust control regulations.

Mobile Land Use Mitigation - Modeling conservatively does not account for project features such as increased land use density (LUT-1), increased transit accessibility (LUT-5), and improve the pedestrian network (SDT-1).

Water Mitigation - Title 24 Requirements (CalGreen)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	PhaseEndDate	2/21/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	12/2/2019
tblLandUse	LotAcreage	2.38	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.017
tblProjectCharacteristics	CO2IntensityFactor	720.49	432.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	ST_TR	9.91	10.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	8.62	10.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	9.52	10.00
tblVehicleTrips	WD_TR	5.81	8.00

**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	54.0935	45.6220	22.6200	0.0401	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,947.4293	3,947.4293	1.1967	0.0000	3,974.0792
2020	53.7681	26.3629	21.8371	0.0400	0.3692	1.4281	1.7973	0.0988	1.3455	1.4443	0.0000	3,836.9749	3,836.9749	0.8259	0.0000	3,857.6214
<b>Maximum</b>	<b>54.0935</b>	<b>45.6220</b>	<b>22.6200</b>	<b>0.0401</b>	<b>18.2141</b>	<b>2.3914</b>	<b>20.6055</b>	<b>9.9699</b>	<b>2.2001</b>	<b>12.1700</b>	<b>0.0000</b>	<b>3,947.4293</b>	<b>3,947.4293</b>	<b>1.1967</b>	<b>0.0000</b>	<b>3,974.0792</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	54.0935	45.6220	22.6200	0.0401	7.1937	2.3914	9.5851	3.9122	2.2001	6.1123	0.0000	3,947.4293	3,947.4293	1.1967	0.0000	3,974.0792
2020	53.7681	26.3629	21.8371	0.0400	0.3692	1.4281	1.7973	0.0988	1.3455	1.4443	0.0000	3,836.9749	3,836.9749	0.8259	0.0000	3,857.6214
<b>Maximum</b>	<b>54.0935</b>	<b>45.6220</b>	<b>22.6200</b>	<b>0.0401</b>	<b>7.1937</b>	<b>2.3914</b>	<b>9.5851</b>	<b>3.9122</b>	<b>2.2001</b>	<b>6.1123</b>	<b>0.0000</b>	<b>3,947.4293</b>	<b>3,947.4293</b>	<b>1.1967</b>	<b>0.0000</b>	<b>3,974.0792</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>59.30</b>	<b>0.00</b>	<b>49.19</b>	<b>60.16</b>	<b>0.00</b>	<b>44.50</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Energy	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
Mobile	0.7430	2.8226	7.3483	0.0228	1.8049	0.0223	1.8272	0.4824	0.0209	0.5033		2,311.1093	2,311.1093	0.1290		2,314.3342
<b>Total</b>	<b>83.7394</b>	<b>4.6839</b>	<b>111.9544</b>	<b>0.2058</b>	<b>1.8049</b>	<b>14.1028</b>	<b>15.9078</b>	<b>0.4824</b>	<b>14.1015</b>	<b>14.5839</b>	<b>1,471.9017</b>	<b>3,225.5119</b>	<b>4,697.4136</b>	<b>1.5005</b>	<b>0.1211</b>	<b>4,771.0085</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Energy	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
Mobile	0.7430	2.8226	7.3483	0.0228	1.8049	0.0223	1.8272	0.4824	0.0209	0.5033		2,311.1093	2,311.1093	0.1290		2,314.3342
<b>Total</b>	<b>83.7394</b>	<b>4.6839</b>	<b>111.9544</b>	<b>0.2058</b>	<b>1.8049</b>	<b>14.1028</b>	<b>15.9078</b>	<b>0.4824</b>	<b>14.1015</b>	<b>14.5839</b>	<b>1,471.9017</b>	<b>3,225.5119</b>	<b>4,697.4136</b>	<b>1.5005</b>	<b>0.1211</b>	<b>4,771.0085</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	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading	Grading	2/5/2019	2/14/2019	5	8	
4	Building Construction	Building Construction	2/15/2019	1/2/2020	5	230	
5	Paving	Paving	1/3/2020	1/28/2020	5	18	
6	Architectural Coating	Architectural Coating	12/2/2019	1/2/2020	5	24	

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

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

**Acres of Paving: 0**

**Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 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					
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>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</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	0.0000	0.0000	0.0000	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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
<b>Total</b>	<b>0.0589</b>	<b>0.0411</b>	<b>0.4641</b>	<b>1.3100e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>130.5300</b>	<b>130.5300</b>	<b>4.1700e-003</b>		<b>130.6342</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5134	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>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</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	0.0000	0.0000	0.0000	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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
<b>Total</b>	<b>0.0589</b>	<b>0.0411</b>	<b>0.4641</b>	<b>1.3100e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>130.5300</b>	<b>130.5300</b>	<b>4.1700e-003</b>		<b>130.6342</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</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	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	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
<b>Total</b>	<b>0.0707</b>	<b>0.0493</b>	<b>0.5569</b>	<b>1.5700e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>156.6359</b>	<b>156.6359</b>	<b>5.0000e-003</b>		<b>156.7610</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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.3904</b>	<b>9.4362</b>	<b>3.8730</b>	<b>2.1991</b>	<b>6.0721</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</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	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
<b>Total</b>	<b>0.0707</b>	<b>0.0493</b>	<b>0.5569</b>	<b>1.5700e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>156.6359</b>	<b>156.6359</b>	<b>5.0000e-003</b>		<b>156.7610</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.3974</b>	<b>7.9497</b>	<b>3.3675</b>	<b>1.2856</b>	<b>4.6531</b>		<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
<b>Total</b>	<b>0.0589</b>	<b>0.0411</b>	<b>0.4641</b>	<b>1.3100e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>130.5300</b>	<b>130.5300</b>	<b>4.1700e-003</b>		<b>130.6342</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					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000				0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292			2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>2.5554</b>	<b>1.3974</b>	<b>3.9528</b>	<b>1.3133</b>	<b>1.2856</b>	<b>2.5989</b>	<b>0.0000</b>	<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>			<b>2,960.0361</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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003			130.6342
<b>Total</b>	<b>0.0589</b>	<b>0.0411</b>	<b>0.4641</b>	<b>1.3100e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>130.5300</b>	<b>130.5300</b>	<b>4.1700e-003</b>			<b>130.6342</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	2.8022	26.3349	19.1702	0.0320		1.5127	1.5127		1.4177	1.4177		3,091.3894	3,091.3894	0.7895			3,111.1261

<b>Total</b>	<b>2.8022</b>	<b>26.3349</b>	<b>19.1702</b>	<b>0.0320</b>		<b>1.5127</b>	<b>1.5127</b>		<b>1.4177</b>	<b>1.4177</b>		<b>3,091.3894</b>	<b>3,091.3894</b>	<b>0.7895</b>		<b>3,111.1261</b>
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**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	0.0276	0.7439	0.1921	1.6600e-003	0.0406	5.1800e-003	0.0458	0.0117	4.9500e-003	0.0166		177.6100	177.6100	0.0137		177.9528
Worker	0.1296	0.0904	1.0211	2.8800e-003	0.2711	1.9300e-003	0.2730	0.0719	1.7800e-003	0.0737		287.1659	287.1659	9.1700e-003		287.3951
<b>Total</b>	<b>0.1572</b>	<b>0.8344</b>	<b>1.2131</b>	<b>4.5400e-003</b>	<b>0.3117</b>	<b>7.1100e-003</b>	<b>0.3188</b>	<b>0.0836</b>	<b>6.7300e-003</b>	<b>0.0903</b>		<b>464.7759</b>	<b>464.7759</b>	<b>0.0229</b>		<b>465.3479</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	2.8022	26.3349	19.1702	0.0320		1.5127	1.5127		1.4177	1.4177	0.0000	3,091.3894	3,091.3894	0.7895		3,111.1261
<b>Total</b>	<b>2.8022</b>	<b>26.3349</b>	<b>19.1702</b>	<b>0.0320</b>		<b>1.5127</b>	<b>1.5127</b>		<b>1.4177</b>	<b>1.4177</b>	<b>0.0000</b>	<b>3,091.3894</b>	<b>3,091.3894</b>	<b>0.7895</b>		<b>3,111.1261</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	0.0276	0.7439	0.1921	1.6600e-003	0.0406	5.1800e-003	0.0458	0.0117	4.9500e-003	0.0166		177.6100	177.6100	0.0137		177.9528
Worker	0.1296	0.0904	1.0211	2.8800e-003	0.2711	1.9300e-003	0.2730	0.0719	1.7800e-003	0.0737		287.1659	287.1659	9.1700e-003		287.3951
<b>Total</b>	<b>0.1572</b>	<b>0.8344</b>	<b>1.2131</b>	<b>4.5400e-003</b>	<b>0.3117</b>	<b>7.1100e-003</b>	<b>0.3188</b>	<b>0.0836</b>	<b>6.7300e-003</b>	<b>0.0903</b>		<b>464.7759</b>	<b>464.7759</b>	<b>0.0229</b>		<b>465.3479</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	2.5166	23.9036	18.6994	0.0320		1.3115	1.3115		1.2293	1.2293		3,042.0040	3,042.0040	0.7810		3,061.5287
<b>Total</b>	<b>2.5166</b>	<b>23.9036</b>	<b>18.6994</b>	<b>0.0320</b>		<b>1.3115</b>	<b>1.3115</b>		<b>1.2293</b>	<b>1.2293</b>		<b>3,042.0040</b>	<b>3,042.0040</b>	<b>0.7810</b>		<b>3,061.5287</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	0.0000	0.0000
Vendor	0.0224	0.6766	0.1724	1.6400e-003	0.0406	3.3100e-003	0.0439	0.0117	3.1700e-003	0.0149		176.4241	176.4241	0.0130		176.7494
Worker	0.1211	0.0816	0.9354	2.7900e-003	0.2711	1.9000e-003	0.2730	0.0719	1.7500e-003	0.0737		278.1065	278.1065	8.3000e-003		278.3141
<b>Total</b>	<b>0.1435</b>	<b>0.7581</b>	<b>1.1078</b>	<b>4.4300e-003</b>	<b>0.3117</b>	<b>5.2100e-003</b>	<b>0.3169</b>	<b>0.0836</b>	<b>4.9200e-003</b>	<b>0.0885</b>		<b>454.5306</b>	<b>454.5306</b>	<b>0.0213</b>		<b>455.0636</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	2.5166	23.9036	18.6994	0.0320		1.3115	1.3115		1.2293	1.2293	0.0000	3,042.0040	3,042.0040	0.7810		3,061.5287
<b>Total</b>	<b>2.5166</b>	<b>23.9036</b>	<b>18.6994</b>	<b>0.0320</b>		<b>1.3115</b>	<b>1.3115</b>		<b>1.2293</b>	<b>1.2293</b>	<b>0.0000</b>	<b>3,042.0040</b>	<b>3,042.0040</b>	<b>0.7810</b>		<b>3,061.5287</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	0.0224	0.6766	0.1724	1.6400e-003	0.0406	3.3100e-003	0.0439	0.0117	3.1700e-003	0.0149		176.4241	176.4241	0.0130		176.7494
Worker	0.1211	0.0816	0.9354	2.7900e-003	0.2711	1.9000e-003	0.2730	0.0719	1.7500e-003	0.0737		278.1065	278.1065	8.3000e-003		278.3141
<b>Total</b>	<b>0.1435</b>	<b>0.7581</b>	<b>1.1078</b>	<b>4.4300e-003</b>	<b>0.3117</b>	<b>5.2100e-003</b>	<b>0.3169</b>	<b>0.0836</b>	<b>4.9200e-003</b>	<b>0.0885</b>		<b>454.5306</b>	<b>454.5306</b>	<b>0.0213</b>		<b>455.0636</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</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	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752
<b>Total</b>	<b>0.0734</b>	<b>0.0495</b>	<b>0.5669</b>	<b>1.6900e-003</b>	<b>0.1643</b>	<b>1.1500e-003</b>	<b>0.1655</b>	<b>0.0436</b>	<b>1.0600e-003</b>	<b>0.0446</b>		<b>168.5494</b>	<b>168.5494</b>	<b>5.0300e-003</b>		<b>168.6752</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</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	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752
<b>Total</b>	<b>0.0734</b>	<b>0.0495</b>	<b>0.5669</b>	<b>1.6900e-003</b>	<b>0.1643</b>	<b>1.1500e-003</b>	<b>0.1655</b>	<b>0.0436</b>	<b>1.0600e-003</b>	<b>0.0446</b>		<b>168.5494</b>	<b>168.5494</b>	<b>5.0300e-003</b>		<b>168.6752</b>

**3.7 Architectural Coating - 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					
Archit. Coating	50.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>51.1066</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</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	0.0275	0.0192	0.2166	6.1000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		60.9140	60.9140	1.9500e-003		60.9626
<b>Total</b>	<b>0.0275</b>	<b>0.0192</b>	<b>0.2166</b>	<b>6.1000e-004</b>	<b>0.0575</b>	<b>4.1000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.8000e-004</b>	<b>0.0156</b>		<b>60.9140</b>	<b>60.9140</b>	<b>1.9500e-003</b>		<b>60.9626</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	50.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>51.1066</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</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	0.0275	0.0192	0.2166	6.1000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		60.9140	60.9140	1.9500e-003		60.9626
<b>Total</b>	<b>0.0275</b>	<b>0.0192</b>	<b>0.2166</b>	<b>6.1000e-004</b>	<b>0.0575</b>	<b>4.1000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.8000e-004</b>	<b>0.0156</b>		<b>60.9140</b>	<b>60.9140</b>	<b>1.9500e-003</b>		<b>60.9626</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	50.8402					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>51.0823</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	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	0.0257	0.0173	0.1984	5.9000e-004	0.0575	4.0000e-004	0.0579	0.0153	3.7000e-004	0.0156		58.9923	58.9923	1.7600e-003		59.0363
<b>Total</b>	<b>0.0257</b>	<b>0.0173</b>	<b>0.1984</b>	<b>5.9000e-004</b>	<b>0.0575</b>	<b>4.0000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.7000e-004</b>	<b>0.0156</b>		<b>58.9923</b>	<b>58.9923</b>	<b>1.7600e-003</b>		<b>59.0363</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	50.8402					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>51.0823</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	0.0257	0.0173	0.1984	5.9000e-004	0.0575	4.0000e-004	0.0579	0.0153	3.7000e-004	0.0156		58.9923	58.9923	1.7600e-003		59.0363
<b>Total</b>	<b>0.0257</b>	<b>0.0173</b>	<b>0.1984</b>	<b>5.9000e-004</b>	<b>0.0575</b>	<b>4.0000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.7000e-004</b>	<b>0.0156</b>		<b>58.9923</b>	<b>58.9923</b>	<b>1.7600e-003</b>		<b>59.0363</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	0.7430	2.8226	7.3483	0.0228	1.8049	0.0223	1.8272	0.4824	0.0209	0.5033		2,311.1093	2,311.1093	0.1290		2,314.3342
Unmitigated	0.7430	2.8226	7.3483	0.0228	1.8049	0.0223	1.8272	0.4824	0.0209	0.5033		2,311.1093	2,311.1093	0.1290		2,314.3342

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	150.00	150.00	150.00	281,217	281,217
Condo/Townhouse	304.00	304.00	304.00	569,934	569,934
Total	454.00	454.00	454.00	851,151	851,151

### 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
Single Family Housing	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3
Condo/Townhouse	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

Condo/Townhouse	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
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## 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	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
NaturalGas Unmitigated	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540

### 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					
Condo/Townhouse	1497.39	0.0162	0.1380	0.0587	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.1638	176.1638	3.3800e-003	3.2300e-003	177.2107
Single Family Housing	961.106	0.0104	0.0886	0.0377	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0713	113.0713	2.1700e-003	2.0700e-003	113.7433
<b>Total</b>		<b>0.0265</b>	<b>0.2266</b>	<b>0.0964</b>	<b>1.4500e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>		<b>289.2352</b>	<b>289.2352</b>	<b>5.5500e-003</b>	<b>5.3000e-003</b>	<b>290.9540</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						
Condo/Townhouse	1.49739	0.0162	0.1380	0.0587	8.8000e-004		0.0112	0.0112		0.0112	0.0112			176.1638	176.1638	3.3800e-003	3.2300e-003	177.2107
Single Family Housing	0.961106	0.0104	0.0886	0.0377	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003			113.0713	113.0713	2.1700e-003	2.0700e-003	113.7433
<b>Total</b>		<b>0.0265</b>	<b>0.2266</b>	<b>0.0964</b>	<b>1.4500e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>			<b>289.2352</b>	<b>289.2352</b>	<b>5.5500e-003</b>	<b>5.3000e-003</b>	<b>290.9540</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Unmitigated	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204

**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	0.3343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	81.1109	1.5840	100.1226	0.1814		14.0382	14.0382		14.0382	14.0382	1,471.9017	617.2941	2,089.1959	1.3583	0.1158	2,157.6552
Landscaping	0.1336	0.0507	4.3871	2.3000e-004		0.0241	0.0241		0.0241	0.0241		7.8733	7.8733	7.6800e-003		8.0652
<b>Total</b>	<b>82.9698</b>	<b>1.6347</b>	<b>104.5097</b>	<b>0.1816</b>		<b>14.0623</b>	<b>14.0623</b>		<b>14.0623</b>	<b>14.0623</b>	<b>1,471.9017</b>	<b>625.1674</b>	<b>2,097.0691</b>	<b>1.3660</b>	<b>0.1158</b>	<b>2,165.7204</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	0.3343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	81.1109	1.5840	100.1226	0.1814		14.0382	14.0382		14.0382	14.0382	1,471.9017	617.2941	2,089.1959	1.3583	0.1158	2,157.6552
Landscaping	0.1336	0.0507	4.3871	2.3000e-004		0.0241	0.0241		0.0241	0.0241		7.8733	7.8733	7.6800e-003		8.0652
<b>Total</b>	<b>82.9698</b>	<b>1.6347</b>	<b>104.5097</b>	<b>0.1816</b>		<b>14.0623</b>	<b>14.0623</b>		<b>14.0623</b>	<b>14.0623</b>	<b>1,471.9017</b>	<b>625.1674</b>	<b>2,097.0691</b>	<b>1.3660</b>	<b>0.1158</b>	<b>2,165.7204</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy



## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Prospect Estates II - Total Project Emissions - San Diego Air Basin, Winter

**Prospect Estates II - Total Project Emissions**  
**San Diego Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	15.00	Dwelling Unit	4.87	27,000.00	43
Condo/Townhouse	38.00	Dwelling Unit	0.00	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	432.29	<b>CH4 Intensity (lb/MW hr)</b>	0.017	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - In 2017 SDG&E had already achieved 2020 RPS goals. Energy intensity factor revised to account for 46.3 percent renewables procurement.

Land Use - Project description

Construction Phase - Architectural coatings would be applied during the last month of building construction.

Architectural Coating - SDAPCD regulations.

Vehicle Trips - Trip generation rate from project Trip Generation Analysis. Average trip length within San Diego County.

Area Coating - SDAPCD regulations.

Construction Off-road Equipment Mitigation - Standard practices for compliance with SDAPCD fugitive dust control regulations.

Mobile Land Use Mitigation - Modeling conservatively does not account for project features such as increased land use density (LUT-1), increased transit accessibility (LUT-5), and improve the pedestrian network (SDT-1).

Water Mitigation - Title 24 Requirements (CalGreen)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	PhaseEndDate	2/21/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	12/2/2019
tblLandUse	LotAcreage	2.38	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.017
tblProjectCharacteristics	CO2IntensityFactor	720.49	432.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	ST_TR	9.91	10.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	8.62	10.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	9.52	10.00
tblVehicleTrips	WD_TR	5.81	8.00

**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	54.1152	45.6281	22.5893	0.0400	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,939.4364	3,939.4364	1.1964	0.0000	3,966.0810
2020	53.7886	26.3745	21.7911	0.0397	0.3692	1.4282	1.7974	0.0988	1.3456	1.4444	0.0000	3,811.7821	3,811.7821	0.8261	0.0000	3,832.4356
<b>Maximum</b>	<b>54.1152</b>	<b>45.6281</b>	<b>22.5893</b>	<b>0.0400</b>	<b>18.2141</b>	<b>2.3914</b>	<b>20.6055</b>	<b>9.9699</b>	<b>2.2001</b>	<b>12.1700</b>	<b>0.0000</b>	<b>3,939.4364</b>	<b>3,939.4364</b>	<b>1.1964</b>	<b>0.0000</b>	<b>3,966.0810</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	54.1152	45.6281	22.5893	0.0400	7.1937	2.3914	9.5851	3.9122	2.2001	6.1123	0.0000	3,939.4364	3,939.4364	1.1964	0.0000	3,966.0810
2020	53.7886	26.3745	21.7911	0.0397	0.3692	1.4282	1.7974	0.0988	1.3456	1.4444	0.0000	3,811.7821	3,811.7821	0.8261	0.0000	3,832.4356
<b>Maximum</b>	<b>54.1152</b>	<b>45.6281</b>	<b>22.5893</b>	<b>0.0400</b>	<b>7.1937</b>	<b>2.3914</b>	<b>9.5851</b>	<b>3.9122</b>	<b>2.2001</b>	<b>6.1123</b>	<b>0.0000</b>	<b>3,939.4364</b>	<b>3,939.4364</b>	<b>1.1964</b>	<b>0.0000</b>	<b>3,966.0810</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>59.30</b>	<b>0.00</b>	<b>49.19</b>	<b>60.16</b>	<b>0.00</b>	<b>44.49</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Energy	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
Mobile	0.7221	2.8877	7.4285	0.0216	1.8049	0.0225	1.8274	0.4824	0.0211	0.5035		2,189.4351	2,189.4351	0.1310		2,192.7102
<b>Total</b>	<b>83.7184</b>	<b>4.7490</b>	<b>112.0347</b>	<b>0.2046</b>	<b>1.8049</b>	<b>14.1031</b>	<b>15.9080</b>	<b>0.4824</b>	<b>14.1017</b>	<b>14.5841</b>	<b>1,471.9017</b>	<b>3,103.8377</b>	<b>4,575.7394</b>	<b>1.5025</b>	<b>0.1211</b>	<b>4,649.3845</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Energy	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
Mobile	0.7221	2.8877	7.4285	0.0216	1.8049	0.0225	1.8274	0.4824	0.0211	0.5035		2,189.4351	2,189.4351	0.1310		2,192.7102
<b>Total</b>	<b>83.7184</b>	<b>4.7490</b>	<b>112.0347</b>	<b>0.2046</b>	<b>1.8049</b>	<b>14.1031</b>	<b>15.9080</b>	<b>0.4824</b>	<b>14.1017</b>	<b>14.5841</b>	<b>1,471.9017</b>	<b>3,103.8377</b>	<b>4,575.7394</b>	<b>1.5025</b>	<b>0.1211</b>	<b>4,649.3845</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	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading	Grading	2/5/2019	2/14/2019	5	8	
4	Building Construction	Building Construction	2/15/2019	1/2/2020	5	230	
5	Paving	Paving	1/3/2020	1/28/2020	5	18	
6	Architectural Coating	Architectural Coating	12/2/2019	1/2/2020	5	24	

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

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

**Acres of Paving: 0**

**Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 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					
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>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</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	0.0000	0.0000	0.0000	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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
<b>Total</b>	<b>0.0666</b>	<b>0.0462</b>	<b>0.4386</b>	<b>1.2300e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>122.5371</b>	<b>122.5371</b>	<b>3.9500e-003</b>		<b>122.6359</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5134	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>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</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	0.0000	0.0000	0.0000	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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
<b>Total</b>	<b>0.0666</b>	<b>0.0462</b>	<b>0.4386</b>	<b>1.2300e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>122.5371</b>	<b>122.5371</b>	<b>3.9500e-003</b>		<b>122.6359</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</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	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	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631
<b>Total</b>	<b>0.0799</b>	<b>0.0554</b>	<b>0.5263</b>	<b>1.4800e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>147.0445</b>	<b>147.0445</b>	<b>4.7400e-003</b>		<b>147.1631</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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.3904</b>	<b>9.4362</b>	<b>3.8730</b>	<b>2.1991</b>	<b>6.0721</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</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	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631
<b>Total</b>	<b>0.0799</b>	<b>0.0554</b>	<b>0.5263</b>	<b>1.4800e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>147.0445</b>	<b>147.0445</b>	<b>4.7400e-003</b>		<b>147.1631</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292			2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.3974</b>	<b>7.9497</b>	<b>3.3675</b>	<b>1.2856</b>	<b>4.6531</b>		<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>			<b>2,960.0361</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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003			122.6359
<b>Total</b>	<b>0.0666</b>	<b>0.0462</b>	<b>0.4386</b>	<b>1.2300e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>122.5371</b>	<b>122.5371</b>	<b>3.9500e-003</b>			<b>122.6359</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					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000				0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292			2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>2.5554</b>	<b>1.3974</b>	<b>3.9528</b>	<b>1.3133</b>	<b>1.2856</b>	<b>2.5989</b>	<b>0.0000</b>	<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>			<b>2,960.0361</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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003			122.6359
<b>Total</b>	<b>0.0666</b>	<b>0.0462</b>	<b>0.4386</b>	<b>1.2300e-003</b>	<b>0.1232</b>	<b>8.8000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>122.5371</b>	<b>122.5371</b>	<b>3.9500e-003</b>			<b>122.6359</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	2.8022	26.3349	19.1702	0.0320		1.5127	1.5127		1.4177	1.4177		3,091.3894	3,091.3894	0.7895			3,111.1261

<b>Total</b>	<b>2.8022</b>	<b>26.3349</b>	<b>19.1702</b>	<b>0.0320</b>		<b>1.5127</b>	<b>1.5127</b>		<b>1.4177</b>	<b>1.4177</b>		<b>3,091.3894</b>	<b>3,091.3894</b>	<b>0.7895</b>		<b>3,111.1261</b>
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**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	0.0288	0.7445	0.2129	1.6200e-003	0.0406	5.2700e-003	0.0459	0.0117	5.0400e-003	0.0167		173.1002	173.1002	0.0146		173.4648
Worker	0.1466	0.1016	0.9649	2.7100e-003	0.2711	1.9300e-003	0.2730	0.0719	1.7800e-003	0.0737		269.5815	269.5815	8.7000e-003		269.7990
<b>Total</b>	<b>0.1754</b>	<b>0.8461</b>	<b>1.1778</b>	<b>4.3300e-003</b>	<b>0.3117</b>	<b>7.2000e-003</b>	<b>0.3189</b>	<b>0.0836</b>	<b>6.8200e-003</b>	<b>0.0904</b>		<b>442.6817</b>	<b>442.6817</b>	<b>0.0233</b>		<b>443.2638</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	2.8022	26.3349	19.1702	0.0320		1.5127	1.5127		1.4177	1.4177	0.0000	3,091.3894	3,091.3894	0.7895		3,111.1261
<b>Total</b>	<b>2.8022</b>	<b>26.3349</b>	<b>19.1702</b>	<b>0.0320</b>		<b>1.5127</b>	<b>1.5127</b>		<b>1.4177</b>	<b>1.4177</b>	<b>0.0000</b>	<b>3,091.3894</b>	<b>3,091.3894</b>	<b>0.7895</b>		<b>3,111.1261</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	0.0288	0.7445	0.2129	1.6200e-003	0.0406	5.2700e-003	0.0459	0.0117	5.0400e-003	0.0167		173.1002	173.1002	0.0146		173.4648
Worker	0.1466	0.1016	0.9649	2.7100e-003	0.2711	1.9300e-003	0.2730	0.0719	1.7800e-003	0.0737		269.5815	269.5815	8.7000e-003		269.7990
<b>Total</b>	<b>0.1754</b>	<b>0.8461</b>	<b>1.1778</b>	<b>4.3300e-003</b>	<b>0.3117</b>	<b>7.2000e-003</b>	<b>0.3189</b>	<b>0.0836</b>	<b>6.8200e-003</b>	<b>0.0904</b>		<b>442.6817</b>	<b>442.6817</b>	<b>0.0233</b>		<b>443.2638</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	2.5166	23.9036	18.6994	0.0320		1.3115	1.3115		1.2293	1.2293		3,042.0040	3,042.0040	0.7810		3,061.5287
<b>Total</b>	<b>2.5166</b>	<b>23.9036</b>	<b>18.6994</b>	<b>0.0320</b>		<b>1.3115</b>	<b>1.3115</b>		<b>1.2293</b>	<b>1.2293</b>		<b>3,042.0040</b>	<b>3,042.0040</b>	<b>0.7810</b>		<b>3,061.5287</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	0.0000	0.0000
Vendor	0.0235	0.6760	0.1913	1.6000e-003	0.0406	3.3700e-003	0.0440	0.0117	3.2300e-003	0.0149		171.8773	171.8773	0.0138		172.2231
Worker	0.1372	0.0916	0.8819	2.6200e-003	0.2711	1.9000e-003	0.2730	0.0719	1.7500e-003	0.0737		261.0735	261.0735	7.8600e-003		261.2701
<b>Total</b>	<b>0.1606</b>	<b>0.7676</b>	<b>1.0732</b>	<b>4.2200e-003</b>	<b>0.3117</b>	<b>5.2700e-003</b>	<b>0.3170</b>	<b>0.0836</b>	<b>4.9800e-003</b>	<b>0.0886</b>		<b>432.9509</b>	<b>432.9509</b>	<b>0.0217</b>		<b>433.4931</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	2.5166	23.9036	18.6994	0.0320		1.3115	1.3115		1.2293	1.2293	0.0000	3,042.0040	3,042.0040	0.7810			3,061.5287
<b>Total</b>	<b>2.5166</b>	<b>23.9036</b>	<b>18.6994</b>	<b>0.0320</b>		<b>1.3115</b>	<b>1.3115</b>		<b>1.2293</b>	<b>1.2293</b>	<b>0.0000</b>	<b>3,042.0040</b>	<b>3,042.0040</b>	<b>0.7810</b>			<b>3,061.5287</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	0.0235	0.6760	0.1913	1.6000e-003	0.0406	3.3700e-003	0.0440	0.0117	3.2300e-003	0.0149		171.8773	171.8773	0.0138		172.2231
Worker	0.1372	0.0916	0.8819	2.6200e-003	0.2711	1.9000e-003	0.2730	0.0719	1.7500e-003	0.0737		261.0735	261.0735	7.8600e-003		261.2701
<b>Total</b>	<b>0.1606</b>	<b>0.7676</b>	<b>1.0732</b>	<b>4.2200e-003</b>	<b>0.3117</b>	<b>5.2700e-003</b>	<b>0.3170</b>	<b>0.0836</b>	<b>4.9800e-003</b>	<b>0.0886</b>		<b>432.9509</b>	<b>432.9509</b>	<b>0.0217</b>		<b>433.4931</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</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	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
<b>Total</b>	<b>0.0831</b>	<b>0.0555</b>	<b>0.5345</b>	<b>1.5900e-003</b>	<b>0.1643</b>	<b>1.1500e-003</b>	<b>0.1655</b>	<b>0.0436</b>	<b>1.0600e-003</b>	<b>0.0446</b>		<b>158.2264</b>	<b>158.2264</b>	<b>4.7600e-003</b>		<b>158.3455</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</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	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
<b>Total</b>	<b>0.0831</b>	<b>0.0555</b>	<b>0.5345</b>	<b>1.5900e-003</b>	<b>0.1643</b>	<b>1.1500e-003</b>	<b>0.1655</b>	<b>0.0436</b>	<b>1.0600e-003</b>	<b>0.0446</b>		<b>158.2264</b>	<b>158.2264</b>	<b>4.7600e-003</b>		<b>158.3455</b>

**3.7 Architectural Coating - 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					
Archit. Coating	50.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>51.1066</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</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	0.0311	0.0215	0.2047	5.7000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		57.1840	57.1840	1.8500e-003		57.2301
<b>Total</b>	<b>0.0311</b>	<b>0.0215</b>	<b>0.2047</b>	<b>5.7000e-004</b>	<b>0.0575</b>	<b>4.1000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.8000e-004</b>	<b>0.0156</b>		<b>57.1840</b>	<b>57.1840</b>	<b>1.8500e-003</b>		<b>57.2301</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	50.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>51.1066</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</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	0.0311	0.0215	0.2047	5.7000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		57.1840	57.1840	1.8500e-003		57.2301
<b>Total</b>	<b>0.0311</b>	<b>0.0215</b>	<b>0.2047</b>	<b>5.7000e-004</b>	<b>0.0575</b>	<b>4.1000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.8000e-004</b>	<b>0.0156</b>		<b>57.1840</b>	<b>57.1840</b>	<b>1.8500e-003</b>		<b>57.2301</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	50.8402					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>51.0823</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	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	0.0291	0.0194	0.1871	5.6000e-004	0.0575	4.0000e-004	0.0579	0.0153	3.7000e-004	0.0156		55.3792	55.3792	1.6700e-003		55.4209
<b>Total</b>	<b>0.0291</b>	<b>0.0194</b>	<b>0.1871</b>	<b>5.6000e-004</b>	<b>0.0575</b>	<b>4.0000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.7000e-004</b>	<b>0.0156</b>		<b>55.3792</b>	<b>55.3792</b>	<b>1.6700e-003</b>		<b>55.4209</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	50.8402					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>51.0823</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	0.0291	0.0194	0.1871	5.6000e-004	0.0575	4.0000e-004	0.0579	0.0153	3.7000e-004	0.0156		55.3792	55.3792	1.6700e-003		55.4209
<b>Total</b>	<b>0.0291</b>	<b>0.0194</b>	<b>0.1871</b>	<b>5.6000e-004</b>	<b>0.0575</b>	<b>4.0000e-004</b>	<b>0.0579</b>	<b>0.0153</b>	<b>3.7000e-004</b>	<b>0.0156</b>		<b>55.3792</b>	<b>55.3792</b>	<b>1.6700e-003</b>		<b>55.4209</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	0.7221	2.8877	7.4285	0.0216	1.8049	0.0225	1.8274	0.4824	0.0211	0.5035		2,189.435	2,189.4351	0.1310		2,192.710
												1				2
Unmitigated	0.7221	2.8877	7.4285	0.0216	1.8049	0.0225	1.8274	0.4824	0.0211	0.5035		2,189.435	2,189.4351	0.1310		2,192.710
												1				2

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	150.00	150.00	150.00	281,217	281,217
Condo/Townhouse	304.00	304.00	304.00	569,934	569,934
Total	454.00	454.00	454.00	851,151	851,151

### 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
Single Family Housing	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3
Condo/Townhouse	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

Condo/Townhouse	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
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## 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	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540
NaturalGas Unmitigated	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183		289.2352	289.2352	5.5400e-003	5.3000e-003	290.9540

### 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					
Condo/Townhouse	1497.39	0.0162	0.1380	0.0587	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.1638	176.1638	3.3800e-003	3.2300e-003	177.2107
Single Family Housing	961.106	0.0104	0.0886	0.0377	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0713	113.0713	2.1700e-003	2.0700e-003	113.7433
<b>Total</b>		<b>0.0265</b>	<b>0.2266</b>	<b>0.0964</b>	<b>1.4500e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>		<b>289.2352</b>	<b>289.2352</b>	<b>5.5500e-003</b>	<b>5.3000e-003</b>	<b>290.9540</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						
Condo/Townhouse	1.49739	0.0162	0.1380	0.0587	8.8000e-004		0.0112	0.0112		0.0112	0.0112			176.1638	176.1638	3.3800e-003	3.2300e-003	177.2107
Single Family Housing	0.961106	0.0104	0.0886	0.0377	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003			113.0713	113.0713	2.1700e-003	2.0700e-003	113.7433
<b>Total</b>		<b>0.0265</b>	<b>0.2266</b>	<b>0.0964</b>	<b>1.4500e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>			<b>289.2352</b>	<b>289.2352</b>	<b>5.5500e-003</b>	<b>5.3000e-003</b>	<b>290.9540</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	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204
Unmitigated	82.9698	1.6347	104.5097	0.1816		14.0623	14.0623		14.0623	14.0623	1,471.9017	625.1674	2,097.0691	1.3660	0.1158	2,165.7204

**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	0.3343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	81.1109	1.5840	100.1226	0.1814		14.0382	14.0382		14.0382	14.0382	1,471.9017	617.2941	2,089.1959	1.3583	0.1158	2,157.6552
Landscaping	0.1336	0.0507	4.3871	2.3000e-004		0.0241	0.0241		0.0241	0.0241		7.8733	7.8733	7.6800e-003		8.0652
<b>Total</b>	<b>82.9698</b>	<b>1.6347</b>	<b>104.5097</b>	<b>0.1816</b>		<b>14.0623</b>	<b>14.0623</b>		<b>14.0623</b>	<b>14.0623</b>	<b>1,471.9017</b>	<b>625.1674</b>	<b>2,097.0691</b>	<b>1.3660</b>	<b>0.1158</b>	<b>2,165.7204</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	0.3343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	81.1109	1.5840	100.1226	0.1814		14.0382	14.0382		14.0382	14.0382	1,471.9017	617.2941	2,089.1959	1.3583	0.1158	2,157.6552
Landscaping	0.1336	0.0507	4.3871	2.3000e-004		0.0241	0.0241		0.0241	0.0241		7.8733	7.8733	7.6800e-003		8.0652
<b>Total</b>	<b>82.9698</b>	<b>1.6347</b>	<b>104.5097</b>	<b>0.1816</b>		<b>14.0623</b>	<b>14.0623</b>		<b>14.0623</b>	<b>14.0623</b>	<b>1,471.9017</b>	<b>625.1674</b>	<b>2,097.0691</b>	<b>1.3660</b>	<b>0.1158</b>	<b>2,165.7204</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy



## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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## Greenhouse Gases

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### Greenhouse Gas Emissions

<b><i>GHG Emissions Estimate (Accounts for 30-year amortized construction)</i></b>	
<b>Emission Source</b>	<b>Emissions (MTCO<sub>2</sub>E)</b>
Construction	14
Area	81
Energy	110
Mobile	366
Waste	18
Water	16
<b>Total</b>	<b>604</b>

Prospect Estates II - Total Project Emissions - San Diego Air Basin, Annual

**Prospect Estates II - Total Project Emissions  
San Diego Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	15.00	Dwelling Unit	4.87	27,000.00	43
Condo/Townhouse	38.00	Dwelling Unit	0.00	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	432.29	<b>CH4 Intensity (lb/MW hr)</b>	0.017	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - In 2017 SDG&E had already achieved 2020 RPS goals. Energy intensity factor revised to account for 46.3 percent renewables procurement.

Land Use - Project description

Construction Phase - Architectural coatings would be applied during the last month of building construction.

Architectural Coating - SDAPCD regulations.

Vehicle Trips - Trip generation rate from project Trip Generation Analysis. Average trip length within San Diego County.

Area Coating - SDAPCD regulations.

Construction Off-road Equipment Mitigation - Standard practices for compliance with SDAPCD fugitive dust control regulations.

Mobile Land Use Mitigation - Modeling conservatively does not account for project features such as increased land use density (LUT-1), increased transit accessibility (LUT-5), and improve the pedestrian network (SDT-1).

Water Mitigation - Title 24 Requirements (CalGreen)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblConstructionPhase	NumDays	18.00	24.00
tblConstructionPhase	PhaseEndDate	2/21/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	12/2/2019
tblLandUse	LotAcreage	2.38	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.017
tblProjectCharacteristics	CO2IntensityFactor	720.49	432.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HO_TL	7.50	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HS_TL	7.30	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	HW_TL	10.80	5.80
tblVehicleTrips	ST_TR	9.91	10.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	8.62	10.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	9.52	10.00
tblVehicleTrips	WD_TR	5.81	8.00

**2.0 Emissions Summary**

## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.9573	3.7058	2.6894	4.8000e-003	0.1088	0.2042	0.3130	0.0483	0.1912	0.2395	0.0000	425.1584	425.1584	0.1000	0.0000	427.6593
2020	0.0651	0.1331	0.1371	2.2000e-004	1.8000e-003	7.3000e-003	9.1000e-003	4.8000e-004	6.7600e-003	7.2400e-003	0.0000	19.5029	19.5029	5.4200e-003	0.0000	19.6383
<b>Maximum</b>	<b>0.9573</b>	<b>3.7058</b>	<b>2.6894</b>	<b>4.8000e-003</b>	<b>0.1088</b>	<b>0.2042</b>	<b>0.3130</b>	<b>0.0483</b>	<b>0.1912</b>	<b>0.2395</b>	<b>0.0000</b>	<b>425.1584</b>	<b>425.1584</b>	<b>0.1000</b>	<b>0.0000</b>	<b>427.6593</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.9573	3.7058	2.6894	4.8000e-003	0.0652	0.2042	0.2694	0.0250	0.1912	0.2161	0.0000	425.1580	425.1580	0.1000	0.0000	427.6588
2020	0.0651	0.1331	0.1371	2.2000e-004	1.8000e-003	7.3000e-003	9.1000e-003	4.8000e-004	6.7600e-003	7.2400e-003	0.0000	19.5028	19.5028	5.4200e-003	0.0000	19.6383
<b>Maximum</b>	<b>0.9573</b>	<b>3.7058</b>	<b>2.6894</b>	<b>4.8000e-003</b>	<b>0.0652</b>	<b>0.2042</b>	<b>0.2694</b>	<b>0.0250</b>	<b>0.1912</b>	<b>0.2161</b>	<b>0.0000</b>	<b>425.1580</b>	<b>425.1580</b>	<b>0.1000</b>	<b>0.0000</b>	<b>427.6588</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>39.38</b>	<b>0.00</b>	<b>13.52</b>	<b>47.86</b>	<b>0.00</b>	<b>9.47</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	1.1148	1.1148
2	4-1-2019	6-30-2019	0.9792	0.9792

3	7-1-2019	9-30-2019	0.9899	0.9899
4	10-1-2019	12-31-2019	1.5587	1.5587
5	1-1-2020	3-31-2020	0.1791	0.1791
		Highest	1.5587	1.5587

## 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	3.6524	0.0695	4.4999	7.4600e-003		0.5777	0.5777		0.5777	0.5777	54.7468	23.6028	78.3496	0.0512	4.3100e-003	80.9116
Energy	4.8400e-003	0.0414	0.0176	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	109.1278	109.1278	3.3300e-003	1.4400e-003	109.6415
Mobile	0.1276	0.5278	1.3273	3.9700e-003	0.3208	4.0600e-003	0.3249	0.0859	3.8100e-003	0.0897	0.0000	365.2495	365.2495	0.0213	0.0000	365.7822
Waste						0.0000	0.0000		0.0000	0.0000	7.1270	0.0000	7.1270	0.4212	0.0000	17.6569
Water						0.0000	0.0000		0.0000	0.0000	1.0955	13.5592	14.6547	0.1131	2.7800e-003	18.3102
<b>Total</b>	<b>3.7849</b>	<b>0.6386</b>	<b>5.8448</b>	<b>0.0117</b>	<b>0.3208</b>	<b>0.5851</b>	<b>0.9059</b>	<b>0.0859</b>	<b>0.5849</b>	<b>0.6708</b>	<b>62.9693</b>	<b>511.5393</b>	<b>574.5086</b>	<b>0.6100</b>	<b>8.5300e-003</b>	<b>592.3023</b>

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.6524	0.0695	4.4999	7.4600e-003		0.5777	0.5777		0.5777	0.5777	54.7468	23.6028	78.3496	0.0512	4.3100e-003	80.9116
Energy	4.8400e-003	0.0414	0.0176	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	109.1278	109.1278	3.3300e-003	1.4400e-003	109.6415

Mobile	0.1276	0.5278	1.3273	3.9700e-003	0.3208	4.0600e-003	0.3249	0.0859	3.8100e-003	0.0897	0.0000	365.2495	365.2495	0.0213	0.0000	365.7822
Waste						0.0000	0.0000		0.0000	0.0000	7.1270	0.0000	7.1270	0.4212	0.0000	17.6569
Water						0.0000	0.0000		0.0000	0.0000	0.8764	11.7959	12.6723	0.0905	2.2300e-003	15.6002
<b>Total</b>	<b>3.7849</b>	<b>0.6386</b>	<b>5.8448</b>	<b>0.0117</b>	<b>0.3208</b>	<b>0.5851</b>	<b>0.9059</b>	<b>0.0859</b>	<b>0.5849</b>	<b>0.6708</b>	<b>62.7502</b>	<b>509.7760</b>	<b>572.5262</b>	<b>0.5875</b>	<b>7.9800e-003</b>	<b>589.5923</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	0.35	0.34	0.35	3.70	6.45	0.46

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	2/4/2019	5	5	
3	Grading	Grading	2/5/2019	2/14/2019	5	8	
4	Building Construction	Building Construction	2/15/2019	1/2/2020	5	230	
5	Paving	Paving	1/3/2020	1/28/2020	5	18	
6	Architectural Coating	Architectural Coating	12/2/2019	1/2/2020	5	24	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 131,625; Residential Outdoor: 43,875; 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	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction



Water Exposed Area

**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					
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>0.0180</b>	<b>0.0180</b>		<b>0.0167</b>	<b>0.0167</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.5000e-004	4.3900e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1227	1.1227	4.0000e-005	0.0000	1.1237
<b>Total</b>	<b>5.9000e-004</b>	<b>4.5000e-004</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1227</b>	<b>1.1227</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1237</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	0.0351	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>0.0180</b>	<b>0.0180</b>		<b>0.0167</b>	<b>0.0167</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.5000e-004	4.3900e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1227	1.1227	4.0000e-005	0.0000	1.1237
<b>Total</b>	<b>5.9000e-004</b>	<b>4.5000e-004</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1227</b>	<b>1.1227</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1237</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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1139	0.0552	9.0000e-005		5.9800e-003	5.9800e-003		5.5000e-003	5.5000e-003	0.0000	8.5422	8.5422	2.7000e-003	0.0000	8.6097
<b>Total</b>	<b>0.0108</b>	<b>0.1139</b>	<b>0.0552</b>	<b>9.0000e-005</b>	<b>0.0452</b>	<b>5.9800e-003</b>	<b>0.0512</b>	<b>0.0248</b>	<b>5.5000e-003</b>	<b>0.0303</b>	<b>0.0000</b>	<b>8.5422</b>	<b>8.5422</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.6097</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	1.8000e-004	1.4000e-004	1.3200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3368	0.3368	1.0000e-005	0.0000	0.3371
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3368</b>	<b>0.3368</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3371</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					0.0176	0.0000	0.0176	9.6800e-003	0.0000	9.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1139	0.0552	9.0000e-005		5.9800e-003	5.9800e-003		5.5000e-003	5.5000e-003	0.0000	8.5422	8.5422	2.7000e-003	0.0000	8.6097
<b>Total</b>	<b>0.0108</b>	<b>0.1139</b>	<b>0.0552</b>	<b>9.0000e-005</b>	<b>0.0176</b>	<b>5.9800e-003</b>	<b>0.0236</b>	<b>9.6800e-003</b>	<b>5.5000e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>8.5422</b>	<b>8.5422</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.6097</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	1.8000e-004	1.4000e-004	1.3200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3368	0.3368	1.0000e-005	0.0000	0.3371
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3368</b>	<b>0.3368</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3371</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1134	0.0652	1.2000e-004		5.5900e-003	5.5900e-003		5.1400e-003	5.1400e-003	0.0000	10.6569	10.6569	3.3700e-003	0.0000	10.7412
<b>Total</b>	<b>0.0103</b>	<b>0.1134</b>	<b>0.0652</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>5.5900e-003</b>	<b>0.0318</b>	<b>0.0135</b>	<b>5.1400e-003</b>	<b>0.0186</b>	<b>0.0000</b>	<b>10.6569</b>	<b>10.6569</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.7412</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
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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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	1.7600e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4491	0.4491	1.0000e-005	0.0000	0.4495
<b>Total</b>	<b>2.4000e-004</b>	<b>1.8000e-004</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4491</b>	<b>0.4491</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4495</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	5.2500e-003	0.0000	5.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1134	0.0652	1.2000e-004		5.5900e-003	5.5900e-003		5.1400e-003	5.1400e-003	0.0000	10.6569	10.6569	3.3700e-003	0.0000	10.7412
<b>Total</b>	<b>0.0103</b>	<b>0.1134</b>	<b>0.0652</b>	<b>1.2000e-004</b>	<b>0.0102</b>	<b>5.5900e-003</b>	<b>0.0158</b>	<b>5.2500e-003</b>	<b>5.1400e-003</b>	<b>0.0104</b>	<b>0.0000</b>	<b>10.6569</b>	<b>10.6569</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.7412</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	2.4000e-004	1.8000e-004	1.7600e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4491	0.4491	1.0000e-005	0.0000	0.4495

Total	2.4000e-004	1.8000e-004	1.7600e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4491	0.4491	1.0000e-005	0.0000	0.4495
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### 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	0.3195	3.0022	2.1854	3.6400e-003		0.1724	0.1724		0.1616	0.1616	0.0000	319.7086	319.7086	0.0817	0.0000	321.7497
<b>Total</b>	<b>0.3195</b>	<b>3.0022</b>	<b>2.1854</b>	<b>3.6400e-003</b>		<b>0.1724</b>	<b>0.1724</b>		<b>0.1616</b>	<b>0.1616</b>	<b>0.0000</b>	<b>319.7086</b>	<b>319.7086</b>	<b>0.0817</b>	<b>0.0000</b>	<b>321.7497</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-003	0.0859	0.0231	1.9000e-004	4.5400e-003	5.9000e-004	5.1300e-003	1.3100e-003	5.7000e-004	1.8800e-003	0.0000	18.1724	18.1724	1.4600e-003	0.0000	18.2088
Worker	0.0148	0.0114	0.1101	3.1000e-004	0.0302	2.2000e-004	0.0304	8.0200e-003	2.0000e-004	8.2200e-003	0.0000	28.1584	28.1584	9.1000e-004	0.0000	28.1811
<b>Total</b>	<b>0.0180</b>	<b>0.0972</b>	<b>0.1331</b>	<b>5.0000e-004</b>	<b>0.0347</b>	<b>8.1000e-004</b>	<b>0.0355</b>	<b>9.3300e-003</b>	<b>7.7000e-004</b>	<b>0.0101</b>	<b>0.0000</b>	<b>46.3308</b>	<b>46.3308</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>46.3899</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	0.3195	3.0022	2.1854	3.6400e-003		0.1724	0.1724		0.1616	0.1616	0.0000	319.7082	319.7082	0.0817	0.0000	321.7494
<b>Total</b>	<b>0.3195</b>	<b>3.0022</b>	<b>2.1854</b>	<b>3.6400e-003</b>		<b>0.1724</b>	<b>0.1724</b>		<b>0.1616</b>	<b>0.1616</b>	<b>0.0000</b>	<b>319.7082</b>	<b>319.7082</b>	<b>0.0817</b>	<b>0.0000</b>	<b>321.7494</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-003	0.0859	0.0231	1.9000e-004	4.5400e-003	5.9000e-004	5.1300e-003	1.3100e-003	5.7000e-004	1.8800e-003	0.0000	18.1724	18.1724	1.4600e-003	0.0000	18.2088
Worker	0.0148	0.0114	0.1101	3.1000e-004	0.0302	2.2000e-004	0.0304	8.0200e-003	2.0000e-004	8.2200e-003	0.0000	28.1584	28.1584	9.1000e-004	0.0000	28.1811
<b>Total</b>	<b>0.0180</b>	<b>0.0972</b>	<b>0.1331</b>	<b>5.0000e-004</b>	<b>0.0347</b>	<b>8.1000e-004</b>	<b>0.0355</b>	<b>9.3300e-003</b>	<b>7.7000e-004</b>	<b>0.0101</b>	<b>0.0000</b>	<b>46.3308</b>	<b>46.3308</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>46.3899</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	2.5200e-003	0.0239	0.0187	3.0000e-005		1.3100e-003	1.3100e-003		1.2300e-003	1.2300e-003	0.0000	2.7597	2.7597	7.1000e-004	0.0000	2.7774
<b>Total</b>	<b>2.5200e-003</b>	<b>0.0239</b>	<b>0.0187</b>	<b>3.0000e-005</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>2.7597</b>	<b>2.7597</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.7774</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.8000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1583	0.1583	1.0000e-005	0.0000	0.1586
Worker	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2392	0.2392	1.0000e-005	0.0000	0.2394
<b>Total</b>	<b>1.4000e-004</b>	<b>7.7000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3975</b>	<b>0.3975</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3980</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	2.5200e-003	0.0239	0.0187	3.0000e-005		1.3100e-003	1.3100e-003		1.2300e-003	1.2300e-003	0.0000	2.7597	2.7597	7.1000e-004	0.0000	2.7774
<b>Total</b>	<b>2.5200e-003</b>	<b>0.0239</b>	<b>0.0187</b>	<b>3.0000e-005</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>2.7597</b>	<b>2.7597</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.7774</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.8000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1583	0.1583	1.0000e-005	0.0000	0.1586
Worker	1.2000e-004	9.0000e-005	8.8000e-004	0.0000	2.6000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2392	0.2392	1.0000e-005	0.0000	0.2394
<b>Total</b>	<b>1.4000e-004</b>	<b>7.7000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3975</b>	<b>0.3975</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3980</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0107</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
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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	6.6000e-004	4.9000e-004	4.8200e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3048	1.3048	4.0000e-005	0.0000	1.3058
<b>Total</b>	<b>6.6000e-004</b>	<b>4.9000e-004</b>	<b>4.8200e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.3048</b>	<b>1.3048</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.3058</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0107</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	6.6000e-004	4.9000e-004	4.8200e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3048	1.3048	4.0000e-005	0.0000	1.3058

Total	6.6000e-004	4.9000e-004	4.8200e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3048	1.3048	4.0000e-005	0.0000	1.3058
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### 3.7 Architectural Coating - 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					
Archit. Coating	0.5592						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9300e-003	0.0202	0.0203	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	2.8086	2.8086	2.4000e-004	0.0000	2.8145
<b>Total</b>	<b>0.5622</b>	<b>0.0202</b>	<b>0.0203</b>	<b>3.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.8145</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.2500e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5768
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.2500e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5763</b>	<b>0.5763</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5768</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	tons/yr										MT/yr					
Archit. Coating	0.5592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9300e-003	0.0202	0.0203	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	2.8086	2.8086	2.4000e-004	0.0000	2.8145
<b>Total</b>	<b>0.5622</b>	<b>0.0202</b>	<b>0.0203</b>	<b>3.0000e-005</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.8145</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.2500e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5768
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.2500e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5763</b>	<b>0.5763</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5768</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	0.0508					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-004	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
<b>Total</b>	<b>0.0511</b>	<b>1.6800e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2558</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0507	0.0507	0.0000	0.0000	0.0508
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0508</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	0.0508					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-004	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
<b>Total</b>	<b>0.0511</b>	<b>1.6800e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2558</b>

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0507	0.0507	0.0000	0.0000	0.0508
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0508</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	0.1276	0.5278	1.3273	3.9700e-003	0.3208	4.0600e-003	0.3249	0.0859	3.8100e-003	0.0897	0.0000	365.2495	365.2495	0.0213	0.0000	365.7822
Unmitigated	0.1276	0.5278	1.3273	3.9700e-003	0.3208	4.0600e-003	0.3249	0.0859	3.8100e-003	0.0897	0.0000	365.2495	365.2495	0.0213	0.0000	365.7822

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	150.00	150.00	150.00	281,217	281,217
Condo/Townhouse	304.00	304.00	304.00	569,934	569,934
Total	454.00	454.00	454.00	851,151	851,151

### 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
Single Family Housing	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3
Condo/Townhouse	5.80	5.80	5.80	41.60	18.80	39.60	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271
Condo/Townhouse	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.2417	61.2417	2.4100e-003	5.7000e-004	61.4708
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.2417	61.2417	2.4100e-003	5.7000e-004	61.4708
Natural Gas Mitigated	4.8400e-003	0.0414	0.0176	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	47.8861	47.8861	9.2000e-004	8.8000e-004	48.1707

NaturalGas Unmitigated	4.8400e-003	0.0414	0.0176	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	47.8861	47.8861	9.2000e-004	8.8000e-004	48.1707
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## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	546548	2.9500e-003	0.0252	0.0107	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1659	29.1659	5.6000e-004	5.3000e-004	29.3392
Single Family Housing	350804	1.8900e-003	0.0162	6.8800e-003	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7202	18.7202	3.6000e-004	3.4000e-004	18.8315
<b>Total</b>		<b>4.8400e-003</b>	<b>0.0413</b>	<b>0.0176</b>	<b>2.6000e-004</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>47.8861</b>	<b>47.8861</b>	<b>9.2000e-004</b>	<b>8.7000e-004</b>	<b>48.1707</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					
Condo/Townhouse	546548	2.9500e-003	0.0252	0.0107	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1659	29.1659	5.6000e-004	5.3000e-004	29.3392
Single Family Housing	350804	1.8900e-003	0.0162	6.8800e-003	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7202	18.7202	3.6000e-004	3.4000e-004	18.8315
<b>Total</b>		<b>4.8400e-003</b>	<b>0.0413</b>	<b>0.0176</b>	<b>2.6000e-004</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>		<b>3.3500e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>47.8861</b>	<b>47.8861</b>	<b>9.2000e-004</b>	<b>8.7000e-004</b>	<b>48.1707</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated



	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	190887	37.4297	1.4700e-003	3.5000e-004	37.5697
Single Family Housing	121438	23.8120	9.4000e-004	2.2000e-004	23.9011
<b>Total</b>		<b>61.2417</b>	<b>2.4100e-003</b>	<b>5.7000e-004</b>	<b>61.4708</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	190887	37.4297	1.4700e-003	3.5000e-004	37.5697
Single Family Housing	121438	23.8120	9.4000e-004	2.2000e-004	23.9011
<b>Total</b>		<b>61.2417</b>	<b>2.4100e-003</b>	<b>5.7000e-004</b>	<b>61.4708</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	3.6524	0.0695	4.4999	7.4600e-003		0.5777	0.5777		0.5777	0.5777	54.7468	23.6028	78.3496	0.0512	4.3100e-003	80.9116
Unmitigated	3.6524	0.0695	4.4999	7.4600e-003		0.5777	0.5777		0.5777	0.5777	54.7468	23.6028	78.3496	0.0512	4.3100e-003	80.9116

## 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	0.0610					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3256	0.0649	4.1050	7.4400e-003		0.5756	0.5756		0.5756	0.5756	54.7468	22.9600	77.7068	0.0505	4.3100e-003	80.2531
Landscaping	0.0120	4.5700e-003	0.3948	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6428	0.6428	6.3000e-004	0.0000	0.6585
<b>Total</b>	<b>3.6524</b>	<b>0.0695</b>	<b>4.4999</b>	<b>7.4600e-003</b>		<b>0.5777</b>	<b>0.5777</b>		<b>0.5777</b>	<b>0.5777</b>	<b>54.7468</b>	<b>23.6028</b>	<b>78.3496</b>	<b>0.0512</b>	<b>4.3100e-003</b>	<b>80.9116</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	0.0610					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3256	0.0649	4.1050	7.4400e-003		0.5756	0.5756		0.5756	0.5756	54.7468	22.9600	77.7068	0.0505	4.3100e-003	80.2531

Landscaping	0.0120	4.5700e-003	0.3948	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6428	0.6428	6.3000e-004	0.0000	0.6585
<b>Total</b>	<b>3.6524</b>	<b>0.0695</b>	<b>4.4999</b>	<b>7.4600e-003</b>		<b>0.5777</b>	<b>0.5777</b>		<b>0.5777</b>	<b>0.5777</b>	<b>54.7468</b>	<b>23.6028</b>	<b>78.3496</b>	<b>0.0512</b>	<b>4.3100e-003</b>	<b>80.9116</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.6723	0.0905	2.2300e-003	15.6002
Unmitigated	14.6547	0.1131	2.7800e-003	18.3102

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.47585 / 1.56086	10.5072	0.0811	1.9900e-003	13.1281
Single Family Housing	0.97731 / 0.61613	4.1476	0.0320	7.9000e-004	5.1821
<b>Total</b>		<b>14.6547</b>	<b>0.1131</b>	<b>2.7800e-003</b>	<b>18.3102</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.98068 / 1.56086	9.0858	0.0649	1.6000e-003	11.1851
Single Family Housing	0.781848 / 0.61613	3.5865	0.0256	6.3000e-004	4.4152
<b>Total</b>		<b>12.6723</b>	<b>0.0905</b>	<b>2.2300e-003</b>	<b>15.6002</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.1270	0.4212	0.0000	17.6569
Unmitigated	7.1270	0.4212	0.0000	17.6569

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	17.48	3.5483	0.2097	0.0000	8.7907
Single Family Housing	17.63	3.5787	0.2115	0.0000	8.8662
<b>Total</b>		<b>7.1270</b>	<b>0.4212</b>	<b>0.0000</b>	<b>17.6569</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	17.48	3.5483	0.2097	0.0000	8.7907
Single Family Housing	17.63	3.5787	0.2115	0.0000	8.8662
<b>Total</b>		<b>7.1270</b>	<b>0.4212</b>	<b>0.0000</b>	<b>17.6569</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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## **11.0 Vegetation**

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